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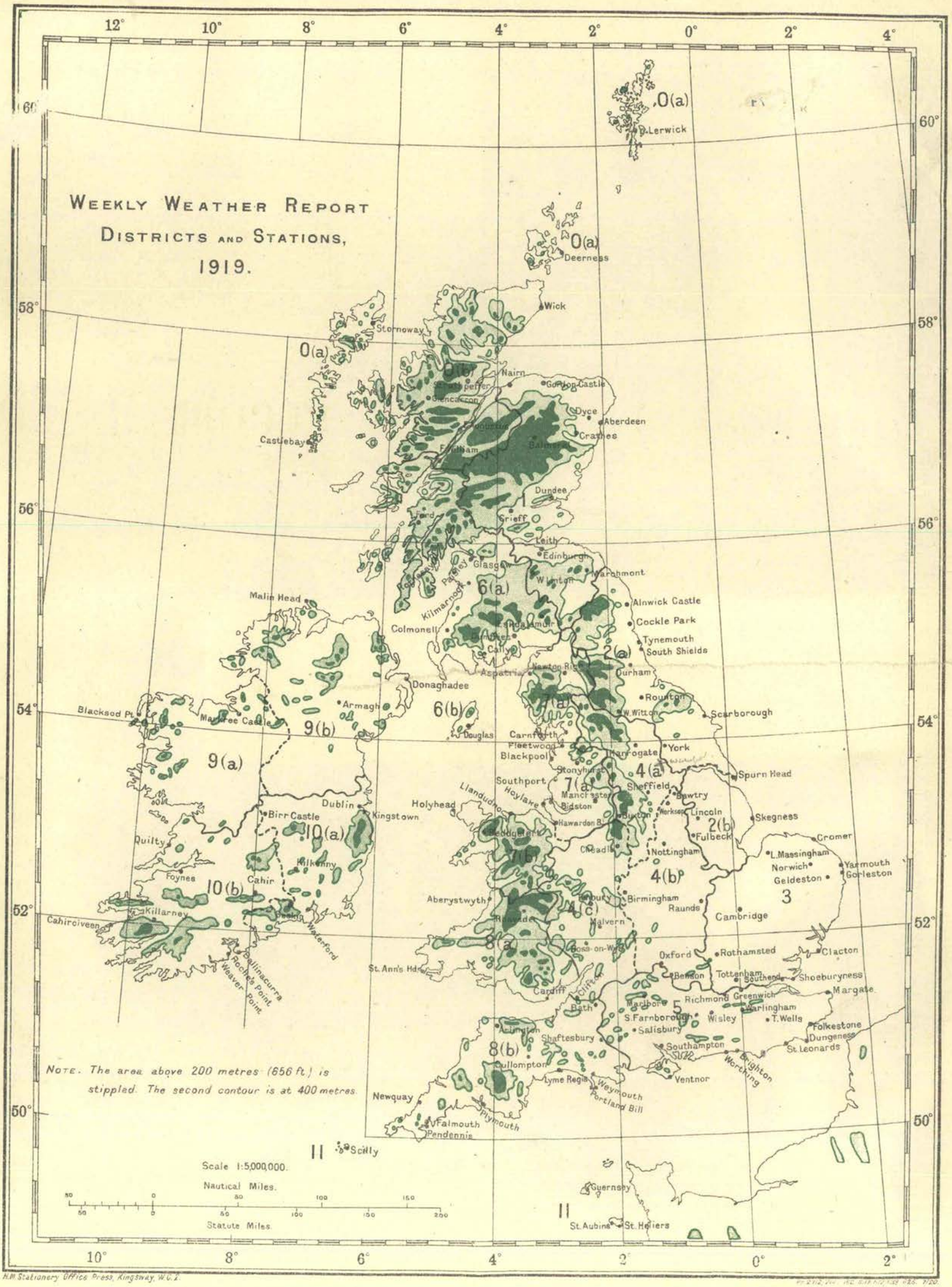

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METEOROLOGICAL OFFICE.

BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK, 1919.

PART I.

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THE

WEEKLY WEATHER REPORT

(VOL. XXXVI.—NEW SERIES).

SECTION 1.—Particulars of Temperature, Rainfall and Bright Sunshine for each week, with quarterly and annual summaries, and an annual table of weekly and progressive values.

Published by the Authority of the Meteorological Committee.

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BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK, 1919.
PARTS I. & II.

CONTENTS.

PART I.

THE WEEKLY WEATHER REPORT. SECTION 1.

Page.

FRONTISPIECE MAP SHOWING THE POSITIONS OF STATIONS INCLUDED IN THE WEEKLY WEATHER REPORT. *to face Title.*

PREFACE iii

GUIDE TO THE TABLES CONTAINED IN THE WEEKLY ISSUES ... ... i–iv

WEEKLY WEATHER REPORTS 1-212

APPENDICES :

I.—District Summaries of the rain-days, rainfall, mean temperature, and bright sunshine in each quarter and in the whole year for each lustrum of the period 1881-1915, and for the years 1916, 1917, 1918 and 1919 213–222

II.—Weekly and Progressive Values for 1919 of the different elements, namely :—

Rain-Days 223

Rainfall 224

Accumulated Temperature above 42° F.... 225

Accumulated Temperature below 42° F. 226

Bright Sunshine—Duration 227

Bright Sunshine—Percentage 228

THE WEEKLY WEATHER REPORT. SECTION 2.

DAILY SYNOPTIC CHARTS OF THE GREATER PART OF THE NORTHERN HEMISPHERE. *Issue suspended.*

PART II.

THE MONTHLY WEATHER REPORT.

Issued as a Supplement to the Weekly Weather Report.

PREFACE, LIST OF STATIONS, AND NAMES OF VOLUNTARY OBSERVERS ii

CORRECTIONS TO MONTHLY WEATHER REPORTS x

SEA TEMPERATURE TABLE xii

MONTHLY WEATHER REPORTS 1–144

ANNUAL SUMMARY, WITH SUMMARY OF GALES AND WIND AS RECORDED AT ANEMOGRAPH STATIONS DURING 1919 145

424/75

PREFACE.

For the convenience of libraries and others the various serial statistical publications of the Meteorological Office have been grouped since 1911 under the general title British Meteorological and Magnetic Year-book. The Year-book is in five parts :—

Part I.—The Weekly Weather Report. Issued weekly on Friday. Price 6*d*. Appendix I issued quarterly, Appendix II, annually.

Part II.—The Monthly Weather Report. Issued monthly on the 27th of each month, with a summary issued annually. Price 6*d*. each issue.

Part III.—Section I. Daily readings at stations of the First and Second Orders. Issued in monthly parts within about five weeks of the close of each month. Price 6*d*. each part. Annual Volume, 5*s*.

Section 2. The Geophysical Journal of the Observatories of the Meteorological Office. Issued in Monthly Parts. Price 1*s*. each part. Annual Volume, 10*s*.

Part IV.—Hourly Values from Autographic Records. Published at the end of each year. Price, 5*s*.

Part V.—Réseau Mondial. Monthly Values for Stations distributed over the Globe. Published in Yearly Volumes.

THE WEEKLY WEATHER REPORT.

The first number of the Weekly Weather Report was that for the first week of February, 1878. There were four pages royal 8vo. A new series commenced in 1884 when the page was enlarged to its present size. A short history of the Report is given in the introduction for 1916 ; for further information reference may be made to the Annual Report of the Meteorological Committee for the year ended 31st March, 1913, p. 37.

The Report consists of two sections. Section I. contains mean values of temperature, rainfall and sunshine for districts and for stations in the British Isles, and summaries of the autographic records of wind. The publication of Section II. which consists of daily weather charts of the North Atlantic and surrounding continents has been suspended since August 1914.

The stations used in the preparation of the Report and the districts into which the British Isles are divided for meteorological purposes are shown in the Frontispiece Map. Particulars of the stations will be found in the Introduction to the Monthly Weather Report or in Circular 001 J. The following Table gives the district value stations utilized in 1919.

DISTRICT-VALUE STATIONS, 1919.

District.	Temperature and Rainfall.	Sunshine.	Pressure.
0	Lerwick, Stornoway, Wick, Strathpeffer, Glencarron, Fort William.	Deerness, Stornoway	Lerwick, Stornoway, Castlebay, Wick.
1	Nairn, Gordon Castle, Aberdeen, Balmoral, Crieff, Leith, West Linton, Marchmont.	Crathes, Nairn, Aberdeen, Dundee, Marchmont, Edinburgh.	Nairn, Aberdeen, Leith.
2	Alnwick, Tynemouth, Durham, Rounton, Scarborough, York, Spurn Hd., Lincoln, Fulbeck.	Cockle Park, Durham, Scarborough, York, Fulbeck, Skegness.	Tynemouth, Spurn Head.
3	Cromer, Little Massingham, Yarmouth, Norwich, Geldeston, Cambridge, Clacton-on-Sea, Rothamsted, Tottenham.	Cromer, Little Massingham, Yarmouth, Geldeston, Cambridge, Clacton-on-Sea, Rothamsted, Tottenham.	Yarmouth, Clacton-on-Sea.
4	Harrogate, Bawtry (or Worksop), Nottingham, Birmingham, Raunds, Oxford, Cheadle, Tenbury, Ross on Wye, Clifton.	Harrogate, Sheffield, Worksop, Nottingham, Birmingham, Oxford, Ross on Wye, Clifton.	Nottingham, Benson.
5	Richmond (Kew Obs.), Marlborough, Margate, Wisley, Salisbury, Tunbridge Wells, Dungeness, St. Leonards, Southampton, Ventnor.	Richmond (Kew Obs.), Marlborough, Margate, Wisley, Worthing, Tunbridge Wells, Folkestone, St. Leonards, Southampton, Ventnor.	Dungeness, Richmond (Kew Obs.).
6	Ford, Glasgow, Rothesay, Kilmarnock, Colmonell, Dumfries, Cally, Douglas.	Glasgow, Douglas	Glasgow, Eskdalemuir
7	Aspatria, Newton Rigg, Stonyhurst, Blackpool, Southport, Liverpool, Hawarden Br., Manchester (Whit. Pk.), Llandudno, Holyhead.	Hoylake, Aspatria, Newton Rigg, Stonyhurst, Blackpool, Southport, Llandudno.	Liverpool, Holyhead.
8	Rhayader, Pembroke, Cardiff, Bath, Shaftesbury, Arlington, Cullompton, Portland, Plymouth, Falmouth.	Aberystwyth, Rhayader, Pembroke, Cullompton, Plymouth, Falmouth, Newquay.	Pembroke, Portland.
9	Malin Hd., Blacksod Point, Markree Castle, Birr Castle, Armagh, Donaghadee.	Markree Castle, Armagh	Malin Head, Blacksod Point, Donaghadee.
10	Dublin (City), Kilkenny, Waterford, Birr Castle, Foynes, Cahir, Killarney, Cahirciveen (Val. Obs.), Roches Pt.	Dublin (Phœnix Park), Birr Castle, Cahirciveen (Val. Obs.), Ballinacurra.	Cahirciveen (Val. Obs.), Roches Point, Birr Castle.
11	Scilly, Jersey, Guernsey (Villa Carey)	Scilly, Jersey, Guernsey (Villa Carey)	Scilly, Jersey.

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The following changes in the list of stations took place during the year.

The Returns from Rauceby were discontinued after the first week. The neighbouring station of Fulbeck is now a District-Value station for Sunshine as well as for Rainfall and Temperature. The Lerwick station which had been moved temporarily to Ander Hill in 1918 was re-established at Fort Charlotte in March 1919.

Observations at Beddgelert ceased with the 39th week, on the departure of Mr. A. Lockwood.

With the 8th week the observations at Hampstead were resumed. The station at Aberdovey was in abeyance throughout the year, that at Fort Augustus during the second half. The Orkneys were represented by Houton Bay until the closing of the station at the end of October, when Deerness was re-instated.

Observations at Hesley Hall, Bawtry (a station with nearly 40 years records) ceased at the end of October. Its place as a District-Value station for Temperature and Rainfall was taken by Worksop (Hodsock Priory).

The following notes refer to the Anemographs utilized for the wind analysis in Tables II. and V.

The records at Warlingham ceased after the 5th week. The Cup-Anemograph at Yarmouth failed after the 20th week. From the 24th week the Shoeburyness records were used in Table II. The instrument at Lyme Regis was under repair for some weeks, but the records from Rousdon were kindly placed at the disposal of the Office.

The station at Carnforth was maintained only to the end of the year. The anemographs at Spurn Head, Gorleston and South Farnborough were out of action during the whole year.

APPENDICES.

Appendix I. shows for each quarter and for the whole year (1) the number of rain-days, (2) the total rainfall and its percentage of the normal, (3) the mean temperature and its difference from the normal and (4) the duration of bright sunshine and its percentage of the normal.

In addition to the normals for the 35 years 1881–1915 figures are given for the years 1913 to 1919, and for each of the six lustra in the period 1881–1915. The corresponding data for the individual years of the whole period 1878–1920 are to be republished in an appendix for 1920 so as to present in a convenient form the character of the seasons throughout the 43 years.

Appendix II. contains a résumé of the District Values for the weeks of the year. It is prepared with a view to discussion of the influence of weather on crops or on the public health.

THE BOOK OF NORMALS.—The normal values of some of the more important meteorological elements have been published from time to time in Appendices to this Report. The last of the series was Appendix IV., 1913, in which normals for periods ending 1910 were set out. "The Book of Normals of Meteorological Elements for the British Isles for periods ending 1915," is being issued in the more convenient form of an octavo volume. Section I contains monthly normals for stations of Temperature, Rainfall and Sunshine, and Section II. is devoted to Weekly, Monthly, Quarterly and Seasonal Normals for Districts.

Meteorological Office,
London, S.W. 7.
June, 1920.

NAPIER SHAW,
Director.

Printed by HIS MAJESTY'S STATIONERY OFFICE, HARROW.

METEOROLOGICAL OFFICE.

WEEKLY WEATHER REPORT, 1919.

GUIDE TO THE TABLES CONTAINED IN THE WEEKLY ISSUES.

The first page contains a digest of the whole information for the week as much as possible in words and as little as possible in figures. It begins with a general summary in words and then a summary of wind components, based upon the records of anemometers, is followed by a table showing for the Districts into which the Kingdom is divided, the character of the week for warmth, rainfall and sunshine. The numerical summary for each District is given on the fourth page. The summaries are based on the information for the individual stations set out on the two inner pages.

Table II. Wind Components.

This table gives the reader an idea of the character of the weather of the week as regards the frequency of northerly, southerly, easterly or westerly winds, information which is frequently required, especially by medical officers, when the conditions favourable to warmth, rainfall and sunshine are under consideration.

The table gives the frequency of occurrence and the mean value for the week of the components of wind as recorded at Deerness (Scotland, N.), Edinburgh, Great Yarmouth (England, E.), Kew Observatory, Richmond (London), Holyhead (North Wales), Scilly (England, S.W.), Kingstown (Dublin) and Valencia Observatory, Cahirciveen (Ireland, S.W.).

The strength of the wind at Edinburgh is measured by a Dines tube-anemograph, at the other stations by cup-anemographs of the Robinson pattern. Particulars as to the heights at which the anemometers are exposed will be found in the Monthly Weather Report. The records obtained are tabulated hourly; directions are given to the nearest point, and the values of the wind components are worked out daily for the four hours centering at 3h., 9h., 15h. and 21h. Each result is taken as representative of a quarter of a day, and the number of times a component occurs is entered as its "frequency." The frequency of calm is obtained similarly. Direction is not tabulated when the speed of the wind is less than 1·6 metres per second, and winds of less than that speed are counted as "calm."

It should be noticed that if the mean direction for the hour is within $\frac{1}{2}$ point (nominally $5\frac{5}{8}°$) of E. or of W. no North or South component is entered. Accordingly, the sum of the frequencies of North and South components and of calms is not always equal to 28.

Table III. Warmth, Rainfall and Sunshine. Comparison with Normal.

(The Classification is based upon the Values for each District published in Table VI. of each Weekly Issue.)

Warmth.—The week's warmth is called **unusual** if it is so much above the normal for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the normal for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called **moderate.**

Rainfall.—The week's rainfall is called **heavy** if it is so much above the normal for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called **moderate.** When the week has been without rain, the word **nought** is inserted in the column for the district.

Sunshine.—The week's sunshine is called **abundant** if it is so much above the normal for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the normal for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called **moderate.** When the week has been without sunshine the word **nought** is inserted in the column for the district.

The classification may be put briefly in tabular form as below, and a similar table applies to Rainfall and Sunshine also. For the latter elements a week for which the value is **nought** counts as a **very light** or **very scanty** week.

Classification for Warmth.

Number of weeks on the Average in 12 years.					
Very Unusual.	Unusual.	Moderate.	Deficient.	Very Deficient.	Total.
1	3	4	3	1	12

The normals referred to above are the smoothed normals of the weekly values published in the Weekly Weather Report for the 25 years 1881–1905. An account of the method of determining the limits of the various classes is given in a paper by R. G. K. Lempfert: "A New Method of Treating Meteorological Statistics," Journal of the Board of Agriculture, Vol. xiv, No. 1, April 1907.

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In the Summaries for the current season the first figures (**large thick type**) in each column denote the number of weeks of **unusual** warmth, **heavy** rainfall and **abundant** sunshine in each district. The second figures (**small thick type**) denote the number of **moderate** weeks. The third figures (ordinary type) denote the number of weeks of **deficient** warmth, **light** rainfall, **scanty** sunshine. **Very unusual** weeks are included with **unusual weeks** in this table, and so for the other extreme characters.

Table IV. Temperature, Rainfall and Sunshine at Stations in the British Isles.

TEMPERATURE.—(*a*) **Of the Air.**—In general the temperature of the air is obtained from self-registering maximum and minimum thermometers placed in a louvred screen, on a four-legged stand, at a height of about 4 feet above the ground. At Greenwich and at Camden Square Glaisher stands are in use, and the extreme readings by day and by night are likely to be respectively higher and lower than the air temperature. The hours of observation are generally those given in the Monthly Weather Report, but for the observatories at Aberdeen, Eskdalemuir, Richmond and Cahirciveen the 7h. observations are utilised. The thermometers are read and set at the hour of morning observation (7h. or 9h. G.M.T.) at stations marked *a*, and at the hour of evening observation (generally 21h.) at the stations marked *p*. At the former the maximum temperature is entered to the day preceding that on which it is read, and at the latter to the day of reading. The minimum temperature is entered in all cases to the day of reading.

The mean temperature published in this Report is calculated from the maximum and minimum but is intended to represent the true mean temperature for the week. It differs from half the sum of the means of the daily maxima and minima by an amount proportional for each month to the difference between these two means. If X and N are the means of the daily maxima and minima, the amounts to be added or subtracted from $\frac{1}{2}(X + N)$ to get the mean temperature are shown in the following table* :—

Month.	Jan. and Dec.	Feb. and Nov.	Mar. and Oct.	Apr. and Sept.	May and Aug.	June and July.
Amount	Add $\frac{1}{50}(X-N)$	Nil	Subtract $\frac{3}{200}(X-N)$	Subtract $\frac{6}{250}(X-N)$	Subtract $\frac{3}{100}(X-N)$	Subtract $\frac{7}{200}(X-N)$
Simple Approximate Value.			$\frac{1}{70}(X-N)$	$\frac{1}{40}(X-N)$	$\frac{1}{30}(X-N)$	$\frac{1}{30}(X-N)$

* The table is based on formulae proposed by General Strachey and derived from a discussion of the records at Greenwich and the First Order Observatories of the Meteorological Office. (*See* Q.W.R. 1878. App. II.) In the summer the mean of the maximum and minimum temperatures is higher than the true mean for the day as the highest temperatures do not last for many hours. In midwinter it happens frequently that the same cold night gives a low minimum for two consecutive periods of 24 hours, so that the mean temperature derived from the maximum and minimum readings is too low and requires a positive correction. Strachey's investigation referred in the first instance to maxima and minima for the 24 hours ending at midnight. The formulæ are used, however, in this report for readings at 7h., 9h. or 21h. How closely the "Strachey means" agree with the true mean temperatures in such circumstances has not been determined.

(*b*) **On the Grass.**—The "temperature on the grass" is obtained from a minimum thermometer whose stem is protected by an outer glass tube. The thermometer is placed so that it is just level with the top of short grass, *i.e.*, about 2 inches above the ground. The grass minimum thermometer does not record the temperature of the air at its own level but rather its own temperature, *i.e.*, that of a bulb filled with spirit, losing heat by radiation in all directions and receiving heat by radiation from the clouds, from the atmosphere itself, from the ground and from surrounding objects, and by contact with the air. Although the thermometer does not give the temperature of the air or of the grass-blades, its readings do indicate the circumstances in which those temperatures are high or low. A night is reckoned as a night of ground frost if the minimum indicated is 30°·4 F. or below.

(*c*) **In the Ground.**—The temperature of the ground is obtained from thermometers whose bulbs are embedded in a non-conducting material (usually paraffin wax) contained in a glass tube about 1 inch in diameter. The whole thermometer is placed in an iron tube closed at the bottom and covered at the top by a metal lid which prevents the entrance of water into the tube. The readings usually refer to the epoch 9h. G.M.T. Separate iron tubes are used for the 1 foot and 4 feet thermometers.

RAINFALL.—The rainfall refers to the period of 24 hours beginning at the hour of morning observation, *i.e.*, the measurement made in the morning is entered to the preceding day. The gauges are of 8 inch or 5 inch diameter and the rims are 1 foot above the ground.

A rain-day is a day on which ·01 inch or 0·2 mm. of rainfall is recorded during the period of 24 hours referred to above. As it is the practice to count measurements which lie intermediately between two exact numbers as belonging to the higher number if they lie nearer to it (or half-way between the two) and as belonging to the lower number if they lie nearer to *it*, the exact limits of the amount of rain which determines a rain-day are ·005 inch or ·15 mm. respectively. Days on which precipitation is deposited in the form of dew or hoarfrost are not counted as rain-days in this Report, but they are counted as days of precipitation in the Monthly Weather Report.

SUNSHINE.—The records are obtained from recorders in which the sun's rays are concentrated upon a blue card of definite composition and colour by means of a lens of definite size and refractive index. The specification is given in the Observers' Handbook, M.O. 191. The trace during intermittent sunshine is extended by charring of the card beyond the true limits at which the sun emerges and is obscured, and an allowance, resting on long practice, is made for this extension. The allowance is less than that which would reduce the record of intermittent burns of short duration in very bright sunshine sufficiently to give the actual time during which the sun was unobscured. The values are, therefore, on the average slightly in excess of the actual duration of sunshine of intensity sufficient to scorch the card.

Table V. Summary of Autographic Records of Wind.

WIND.—All the records are obtained from instruments of the Dines Tube type except where otherwise stated. The trace is made by recording the rise and fall of a float which is lifted partly by the pressure of the wind in an open horizontal tube facing the wind, and partly by the suction of the wind passing rows of holes in a vertical tube. The trace has the appearance of a ragged ribbon of varying width and the mean velocity for an hour is obtained by taking a line running along the middle of the ribbon and estimating its mean height above the base line for the period from 30 minutes before to 30 minutes after an exact hour of Greenwich Mean Time.

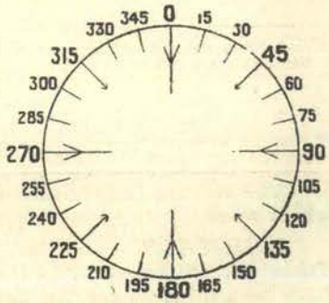
In setting out the distribution of winds according to mean speeds the limits assigned to the several numbers of the Beaufort scale of wind-force have been observed.

It is now recognised that the mean speed of the wind varies rapidly with height so that the same gale will be represented by different wind speeds recorded by two anemometers at different heights at the same place. Of the anemometers which were used in the discussion of the Beaufort scale by Simpson (M.O. publication 180) those at Scilly had the best exposure. Accordingly the table which is based on that discussion may be regarded as giving the speed measured at 10 metres (33 ft.) above the ground in the open corresponding with winds of various strengths as judged by the effect on shipping at sea or on trees, &c., on land.

Beaufort Scale.		Calm. 0	Light Air. 1	Slight Breeze. 2	Gentle Breeze. 3	Modte. Breeze. 4	Fresh Breeze. 5	Strong Breeze. 6	High Wind. 7	Gale. 8	Strong Gale. 9	Whole Gale. 10	Storm. 11	Hurri-cane. 12
Mean wind speed at 33 feet.	mi/hr	Less than 1	1 to 3	4 to 7	8 to 12	13 to 18	19 to 24	25 to 31	32 to 38	39 to 46	47 to 54	55 to 63	64 to 75	Above 75
	m/s	Less than 0·3	0·3 to 1·5	1·6 to 3·3	3·4 to 5·4	5·5 to 7·9	8·0 to 10·7	10·8 to 13·8	13·9 to 17·1	17·2 to 20·7	20·8 to 24·4	24·5 to 28·4	28·5 to 33·5	Above 33·5
W.W.R. groups ...		←——→		←——→		←——→		←——→		←——————————→				

The classification of the winds in Table V. of the Weekly Weather Report is such that for an anemometer well exposed at 33 ft., the groups correspond with Beaufort-forces 0 and 1, 2 and 3, 4 and 5, 6 and 7, 8 and above respectively. For all the anemometers the same limits of wind speed (in metres per second) are adopted, viz., 0 to 1·5, 1·6 to 5·4, 5·5 to 10·7, 10·8 to 17·1, 17·2 and upwards.

The adjustment of the recording part of a Pressure Tube anemograph to give correct readings in the lower part of the scale is difficult so that in using the table of wind distribution less weight should be attached to the distinction made between the two lowest groups than to the other breaks in the series.



The highest hourly wind refers to an hour centering at an exact hour of G.M.T. The speed is expressed in metres per second. The direction is given in degrees measured from North through East. It is referred to true, that is geographical, as distinguished from Magnetic North. It has been decided that the angle made with North is to be given to the nearest 15°, but in the meantime with the charts in use at most stations the direction is estimated in the first instance to the nearest 'point.' In converting 'points' to degrees the odd halves or quarters are ignored, thus NNW. is entered as 337°, S. by E. as 169°.

The direction of the mean velocity is estimated from the direction record in a manner similar to that used for the estimation of mean speed.

The gusts are obtained by taking the highest excursion on the "ribbon." The direction of a gust is taken as nearly as possible for the instant at which the gust occurs.

Times are Greenwich Mean Civil Time (Noon G.M.T. = 12h., 6 p.m. = 18h.). Summer-Time is not used. When an anemometer is on the top of a building the approximate height above the top of the building is shown in the appropriate column. For stations where the head of the anemometer is supported on a pole rising direct from the ground or from an iron skeleton tower which does not interfere with the wind sufficiently to effect appreciably the recorded speed, the symbol ‡ signifying "standard mounting" is shown in this column. The vane of the pressure tube anemograph at Kew Observatory, Richmond, is level with the Robinson cups. It is 22 ft. above the main roof of the Observatory, 6 ft. above a wooden staging erected for wind observation. The vane of the tube anemograph at Aberdeen is 37 ft. above the tower, 52 ft. above the main roof of the College.

At Aberdeen, Holyhead and Scilly the vane is not connected to a Direction Recorder; in these cases the direction is taken from the Robinson-Beckley anemograph. The wind directions at Pendennis Castle and Gorleston are from the Robinson-Beckley anemographs at Falmouth and Yarmouth respectively.

In addition to the results from tube anemographs, the table includes summaries of the readings from the cup anemographs at Deerness, Yarmouth, Fleetwood and Kingstown. These are all of the standard pattern with 9-inch cups. The "factor" 2·2 is assumed at all speeds.

Table VI. District-Values of Temperature, Rainfall, Sunshine—Duration and Pressure.

DISTRICT-VALUES.—Except in the case of "Accumulated Temperature" the District-Values are the means of the station-values for each district

The stations used for the computation of district-values have not been the same during the whole history of the Report, but when a station lapses it is, if possible. replaced by another in the neighbourhood for which the averages of rainfall, temperature and sunshine are similar. A list of the stations for 1919 will be given in the Introduction to the annual volume of the Weekly Weather Report.

The District-Values of Pressure are obtained from the observations at 7h. and 18h. published in the Daily Weather Report. No correction for diurnal range is applied.

The means of daily maximum, minimum and mean temperature, and the deviation of the mean temperature from the normal are expressed in degrees on the Absolute Scale of temperature. The zero of this scale is 273° C. below 0° C., the freezing point of water, and the degree interval is identical with that of the Centigrade thermometer.

For theoretical and practical reasons this scale is to be adopted in all parts of the British Meteorological and Magnetic Year-book. For the present the Temperatures in Table IV. of this Report and also the Accumulated Temperatures in Table VI. remain on the Fahrenheit scale.

ACCUMULATED TEMPERATURE.—The Tables of Accumulated Temperature are designed to give persons engaged in agriculture better means of estimating the manner in which vegetation is affected by temperature than that afforded by the more usual methods of treating the readings of the thermometer. They show the combined amount and duration of the excess or defect of the air temperature, above or below a suitably fixed standard, or base-temperature. For Districts, cumulative values for the whole period since the commencement of the season and the year are published in addition to the values for each week. The base temperature adopted is 42° F., as being nearly equivalent to 6° C. This has been considered by Continental writers on these subjects to be the critical value, the temperature above which is mainly effectual in starting and maintaining the growth, and in completing the ripening, of agricultural crops in a European climate. This base is also convenient as being 10° F. above the freezing point on the Fahrenheit scale.

The following rules* are followed in making the computation of accumulated temperature in the four cases which may occur. In each case the accumulated temperature is found from the District-Values of Maximum, Minimum and Mean Temperature.

Conditions of Temperature.	To obtain the daily Accumulated Temperature.	
	Above 42° F.	Below 42° F.
If the minimum is *above* 42° F. or *equal* to 42° F.	Subtract 42° F. from the mean.	There is none.
If the minimum is *below* 42° F., but the mean for the day is *above* 42° F.	From the difference between the mean for the day and the minimum deduct the accumulated temperature below 42° F., calculated as stated in the next column.	The required quantity is the excess of 42° F. over the minimum, multiplied by the coefficient 0·4.
If the mean for the day is *below* 42° F., but the maximum is *above* 42° F.	The required quantity is the excess of the maximum over 42° F., multiplied by the coefficient 0·4.	From the difference between the mean for the day and the minimum deduct the accumulated temperature above 42° F., calculated as stated in the preceding column.
If the maximum is *below* 42° F. or *equal* to 42° F.	There is none.	Subtract the mean from 42° F.

The average daily values obtained in the manner described are multiplied by 7 to obtain the values for the whole week.

NORMALS.—The normals of air temperature and of rainfall and sunshine for the individual stations in Table IV. are based upon the monthly normals for these stations for the years 1881–1915. The present normals have been in use since the first week of 1917. The normals for the period 1881–1905 were in use from 1908 to 1916.

The averages for Ground Temperature used in Table IV. were computed from the weekly values published in the Reports for the years 1907–1915. No correction has been applied to the averages for shorter periods in the case of stations for which values for the whole 9 years were not available.

The normals used in Table VI. are derived from the weekly district values published in the Report but they have been adjusted in cases where the selection of stations for the district differed materially from the selection now used. These normals are for the 35 years 1881–1915.

METEOROLOGICAL OFFICE,
SOUTH KENSINGTON,
London, S.W.7.

COL. H. G. LYONS, R.E., F.R.S.,
Director.

* *cf.*, Strachey: Quarterly Weather Report, 1878 [p. 19].

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 1.

THE FIRST WEEK OF 1919.

SUNDAY, DECEMBER 29TH, 1918, TO SATURDAY, JANUARY 4TH, 1919.

Price 6d., Post free 6½d
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d

I.—GENERAL SUMMARY. [First published in 1878.]

The weather of the week was of a very variable character. In most districts rain or snow fell on at least six days; there were bright intervals, however, in fact at some stations six hours or more of bright sunshine were recorded on more than one day. Several deep depressions, travelling eastwards, passed directly across these islands, and the barometer was often as low as 975 mb. (28·8 inch.). Gales occurred on the 1st and 2nd of January over the western and northern districts; the direction of the wind was mostly south-west or west, but in the north of Scotland it was from east or north. In Scotland N. and E. the thermometer failed to rise above 280 a. all the week; at Balmoral the highest reading was 277 a., while on Sunday, 29th December, it remained as low as 272 a. Over England and Ireland the week opened with a very warm day, maxima of 286 a. being general, but each succeeding day became cooler, and on Saturday very low daily maxima were experienced, especially over the inland parts of England, many of the readings being no higher than 274 a. Rainfall exceeded the normal except in Scotland N. and Ireland S. The precipitation in Scotland was mostly snow, sleet and hail, while heavy snowstorms occurred over the greater part of England on Friday night. The snow was especially heavy over Yorkshire and the Midlands, and also in Wiltshire and Somerset. Precipitation of 20mm. and more in a day was very common on the 3rd and 4th, the largest individual measurements being 29mm. at Bradford and 33mm. at Salisbury, while at Rothesay on the 1st there was as much as 40mm. Aurora borealis was witnessed over the greater part of Scotland and Ireland and in some parts of Wales on the night of the 3rd. Solar halos were seen at Oxford on December 30th and January 2nd and 3rd.

Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	8	5·1	8	4·1	19	4·1	22	2·5	19	5·0	—	—	18	5·6	16	5·2
North	17	5·4	9	4·2	4	4·6	3	5·8	7	9·6	—	—	7	5·5	9	6·0
West	5	3·1	13	5·1	13	3·3	20	4·0	15	8·8	—	—	22	6·8	18	8·6
East	16	4·1	6	1·7	6	3·1	4	2·3	8	4·1	—	—	1	0·4	7	1·7
Calm	3	—	6	—	4	—	2	—	1	—	—	—	2	—	3	—

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Moderate	Moderate	Moderate	Moderate	Unusual	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Moderate	Very heavy	Very heavy	Very heavy	Very heavy	Very heavy	Heavy	Heavy	Heavy	Heavy	Moderate	Heavy
	Sunshine ...	Moderate	Scanty	Moderate	Moderate	Moderate	Scanty	Moderate	Moderate	Moderate	Abundant	Abundant	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

WINTER. 5 weeks from Dec. 1st, 1918.	Warmth ...	2, 1, 2	2, 2, 1	2, 3, 0	3, 2, 0	2, 3, 0	3, 2, 0	2, 3, 0	2, 3, 0	3, 2, 0	3, 2, 0	2, 3, 0	3, 2, 0
	Rainfall ...	1, 4, 0	2, 2, 1	3, 1, 1	4, 1, 0	3, 2, 0	1, 3, 1	3, 2, 0	3, 2, 0	4, 1, 0	3, 2, 0	3, 2, 0	3, 1, 1
	Sunshine ...	2, 2, 1	3, 0, 2	1, 2, 2	0, 3, 2	1, 2, 2	0, 2, 3	1, 3, 1	1, 3, 1	0, 4, 1	3, 1, 1	1, 3, 1	0, 2, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(21160—19.) Wt. 199—789. 625. 1/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.			Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean	Earth 4 ft. Deviation from Average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	°/c.		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.	54	41	1st	27	1st	38·6	32·0	35·4	- 3·7	7	0·85	22	0										
a, Islands.. a Lerwick	160	—	—	—	—	—	—	—	—	—	—	—	—	Deerness ..	0·3	- 0·4	5	•	•	•	•	•	•
p Deerness	51	44	1st	32	1, 4	40·4	33·9	37·3	- 1·9	7	1·18	30	+ 3	Stornoway ..	1·0	+ 0·2	16	•	•	•	•	•	•
a Stornoway	37	48	1st	35	30, 1	44·0	37·4	40·8	—	5	0·75	19	—	Castlebay ..	2·0	—	30	•	•	•	•	•	•
a Castlebay, Barra Isd.	81	43	1-4	29	1st	41·4	33·6	37·7	- 0·3	7	1·54	39	+ 26	Fort Augustus..	—	—	—	•	•	•	•	•	•
b, Mainland. a Wick	125	42	1st	26	1st	37·6	30·0	34·0	- 3·0	6	0·55	14	- 2										
a Strathpeffer	500	42	2nd	22	31st	38·4	29·3	34·0	- 3·0	6	0·97	25	- 24										
p Glencarron	68	42	2nd	22	3rd	39·4	26·9	33·4	- 4·2	—	—	—	—										
a Fort Augustus.. ..	171	43	1, 2	23	4th	39·3	28·0	33·9	- 4·9	5	0·84	21	- 26										
p Fort William																							
1. SCOTLAND, E.																							
a Nairn	82	42	1, 2	26	4th	39·0	31·1	35·2	- 1·8	7	0·61	16	+ 4	Nairn	0·4	—	6	•	•	•	•	•	•
p Gordon Castle	101	43	1st	29	4th	39·9	31·9	36·1	- 1·8	7	2·31	59	+ 46	Gordon Castle..	0·8	—	12	•	•	•	•	•	•
a Aberdeen	46	41	1, 4	29	1st	39·1	33·0	36·2	- 1·5	6	1·60	41	+ 26	Aberdeen ..	0·7	- 0·4	11	4	21	•	•	40·4	-0·5
a Balmoral	930	39	1, 2	16	1, 4	35·1	24·6	30·1	- 4·0	6	1·65	42	+ 26	Balmoral ..	•	•	•	7	13	•	•	•	•
p Crieff	432	42	2nd	23	1st	38·6	27·1	33·1	- 3·7	6	1·25	32	+ 8	Crathes	0·5	- 0·7	7	7	17	34·1	-1·9	38·7	-0·3
a Dundee	244	40	2nd	22	1st	37·7	27·7	32·9	- 3·9	6	1·14	29	+ 16	Dundee	0·8	—	12	7	17	34·3	•	•	•
a Leith	30	44	1, 2	30	1st	40·9	34·0	37·6	- 1·5	6	0·92	23	+ 13	Leith	—	—	—	5	24	•	•	•	•
p Edinburgh	441	44	1st	30	31st	39·6	32·9	36·4	- 1·5	6	0·94	24	+ 13	Edinburgh ..	0·4	- 0·9	6	4	25	•	•	•	•
a West Linton	769	41	29, 1	22	1st	38·1	29·4	33·9	- 0·1	6	2·26	57	—	West Linton ..	0·5	—	7	4	16	•	•	•	•
p Marchmont	498	41	2nd	27	3rd	38·7	31·4	35·2	- 1·1	7	2·40	61	+ 47	Marchmont .	0·3	- 0·7	4	•	•	•	•	•	•
6. a, SCOTLAND, W.																							
a Ford (Argyll)	149	46	29th	26	4th	41·7	31·1	36·6	—	4	1·57	40	—	Ford (Argyll) ..	•	•	•	4	16	37·8	•	42·6	•
p Glasgow Observatory	180	42	1st	30	31, 1	39·9	32·0	36·1	- 2·3	6	1·55	39	+ 19	Glasgow.. ..	0·5	0·0	7	4	23	•	•	•	•
p Rothesay	200	43	29, 1	31	2nd	40·7	33·9	37·4	- 1·9	6	2·52	64	+ 36	Rothesay ..	0·7	—	10	7	24	37·6	•	42·6	-0·6
a Kilmarnock	90	45	29th	28	31, 1	40·9	32·3	36·8	- 0·7	7	1·80	46	+ 24	Kilmarnock ..	0·6	—	9	•	•	37·8	•	42·5	•
a Colmonell	170	48	29th	27	4th	42·4	35·3	39·0	0·0	6	1·45	37	+ 9	Colmonell ..	•	•	•	3	24	•	•	•	•
p Cally, Gatehouse ..	120	45	29, 30, 1	28	1st	42·3	33·7	38·2	+ 0·1	7	2·80	71	+ 43	Dumfries ..	0·8	—	11	4	18	38·6	-0·4	42·3	+0·5
p Dumfries	160	46	1st	26	1st	41·9	32·3	37·3	- 0·4	6	1·11	28	+ 9	Eskdalemuir ..	0·8	—	11	4	16	•	•	•	•
a Eskdalemuir	794	42	29, 1	20	1st	38·6	29·3	34·1	—	6	2·29	58	—										
b, I. OF MAN p Douglas	277	51	29th	33	3rd	44·6	36·9	40·9	+ 0·2	7	1·78	45	+ 22	Douglas	1·9	+ 0·6	26	1	28	•	•	•	•
2. ENGLAND, N.E.																							
a North .. a Alnwick Castle ..	210	44	2nd	28	1, 4	41·4	31·7	36·7	- 1·0	7	2·11	54	+ 37										
a Tynemouth	71	44	29, 2	31	1st	42·3	35·1	38·8	+ 0·4	7	1·59	40	+ 27	Cockle Park ..	0·4	- 0·9	6	4	24	35·6	-1·7	40·1	-0·5
p Durham	336	44	29, 30	27	1st	41·1	32·1	36·8	- 0·1	7	1·37	35	+ 23	Durham ..	0·2	- 0·9	3	4	17	•	•	•	•
p Rounton	249	48	29th	28	1st	42·0	33·6	38·0	+ 1·1	7	1·71	44	+ 31	Rounton ..	•	•	•	4	18	38·1	•	•	•
a West Witton	605	48	29th	28	1st	41·1	34·1	37·7	—	7	2·40	61	—	West Witton ..	•	•	•	3	23	38·3	•	41·6	•
p Scarborough	100	47	29, 31	35	3rd	44·9	37·4	41·3	+ 2·8	6	2·74	70	+ 55	Scarborough† ..	0·6	- 0·4	8	•	•	•	•	47·9	•
p York	56	51	29th	31	1st	43·9	36·0	40·1	+ 2·3	7	1·50	38	+ 25	York	0·7	0·0	10	—	—	40·2	+0·5	43·5	+0·3
b, South .. a Spurn Head	26	50	29th	35	1, 2	44·4	37·6	41·1	+ 2·6	7	1·06	27	+ 16	Spurn Head ..	0·3	—	4	•	•	•	•	•	•
a Lincoln	58	53	29th	31	1st	45·1	36·3	40·9	+ 3·8	6	1·35	34	+ 21	Lincoln	•	•	•	3	27	39·8	+1·6	43·8	+1·0
a Fulbeck	180	53	29th	31	1st	44·1	36·0	40·2	+ 3·1	7	1·63	42	+ 29	Rauceby ..	1·9	+ 0·7	26	•	•	40·7	+0·7	44·9	+0·7
														Skegness ..	1·6	+ 0·2	22	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	53	29th	32	1, 2	45·4	36·0	40·9	+ 2·9	7	0·69	18	+ 7	Cromer	1·9	+ 0·4	26	•	•	•	•	•	•
a Little Massingham ..	280	52	29th	30	1st	43·9	34·3	39·3	+ 2·4	5	1·22	31	+ 15	Lit. Massingham	1·9	+ 0·6	25	•	•	•	•	•	•
a Yarmouth	13	54	29th	32	1st	45·6	37·6	41·8	+ 4·0	6	0·92	23	+ 10	Yarmouth ..	0·1	—	1	0	32	43·0	+3·2	46·6	+2·1
a Norwich	93	53	29th	31	1st	44·9	36·6	40·9	+ 3·5	7	1·06	27	+ 12	Norwich ..	2·1	—	28	1	26	38·7	•	•	•
a Geldeston	37	55	29th	29	1st	46·3	35·6	41·2	+ 3·2	7	0·93	24	+ 11	Geldeston ..	2·0	+ 0·5	26	•	•	•	•	•	•
p Cambridge	41	55	29th	30	1st	45·1	37·1	41·3	+ 3·7	7	1·12	28	+ 17	Cambridge ..	2·1	+ 0·7	28	2	26	41·9	+2·1	45·4	+1·2
a Clacton-on-Sea ..	54	54	29th	29	1st	45·6	37·6	41·8	+ 3·8	5	0·69	17	+ 7	Clacton	1·6	0·0	21	1	28	42·9	+1·5	46·5	+0·8
a Rothamsted	424	52	29th	32	1st	44·3	36·7	40·7	+ 3·4	6	1·19	30	+ 15	Rothamsted ..	1·6	+ 0·2	21	2	26	41·5	•	•	•
p Tottenham	51	55	29th	35	1st	46·9	40·3	43·7	—	5	1·19	30	—	Tottenham ..	0·5	—	6	0	33	•	•	46·4	+0·7
4. MIDLAND COUNTIES.																							
a North .. a Harrogate	479	50	29th	29	1st	41·4	34·3	38·0	+ 1·4	7	2·56	65	+ 48	Harrogate ..	0·8	- 0·5	11	3	21	39·6	+0·1	41·8	+0·4
p Sheffield	429	53	29th	32	1, 4	44·0	36·0	40·2	—	6	2·60	66	—	Sheffield.. ..	1·0	- 0·1	14	1	26	39·7	+0·6	43·8	+0·6
p Buxton	987	—	—	—	—	—	—	—	—	—	—	—	—	Buxton	—	—	—	—	—	—	—	—	—
a Bawtry	65	53	29th	30	1st	43·6	35·6	39·8	+ 2·6	5	1·97	50	+ 38	Worksop ..	1·4	+ 0·4	19	4	20	39·7	•	42·5	•
a Nottingham	82	55	29th	32	4th	45·0	36·1	40·7	+ 3·1	7	1·41	36	+ 23	Nottingham ..	1·6	+ 0·7	22	2	28	39·5	+1·1	42·3	+0·7
b, East .. p Birmingham, Edgbsn.	535	53	29th	28	4th	45·0	35·7	40·5	+ 2·8	6	1·42	36	+ 21	Birmingham ..	1·4	+ 0·5	18	1	21	42·1	+1·1	•	•
a Raunds	203	55	29th	30	1st	45·3	36·4	41·0	+ 4·4	5	1·35	34	+ 22	Raunds	2·4	—	32	5	22	42·4	•	47·2	•
p Oxford	208	53	29th	33	1, 4	46·0	38·0	42·2	+ 3·8	5	1·54	39	+ 26	Oxford	1·7	+ 0·3	22	2	24	•	•	•	•
														Malvern ..	—	—	—	—	—	—	—	—	—
a Cheadle (N. Staffs.) ..	646	51	29th	31	1st	42·6	35·3	39·1	+ 2·7	5	1·24	32	+ 14	Cheadle	•	•	•	2	23	•	•	•	•
c, West .. p Tenbury	313	53	29th	30	4th	44·9	36·7	41·0	+ 2·3	5	0·63	16	+ 4	Tenbury	•	•	•	3	26	41·6	•	•	•
p Ross-on-Wye	201	55	29th	29	4th	46·6	38·1	42·5	+ 4·2	6	0·93	24	+ 9	Ross-on-Wye ..	1·6	—	21	2	27	—	—	—	—
a Clifton	228	52	29th	32	1, 4	45·7	39·1	42·5	+ 2·8	6	1·58	40	+ 18	Clifton	0·9	—	12	2	28	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	52	29th	30	4th	44·1	37·0	40·7	+ 3·0	6	1·86	47	+ 31	Worthing ..	0·8	- 1·0	10	2	25	43·5	+2·0	47·5	+1·5
p Salisbury (Wilton) ..	180	55	29th	28	4th	46·9	36·4	41·9	+ 3·7	6	2·29	58	+ 39	Marlborough ..	0·5	- 0·7	6	3	25	42·4	•	46·5	•
a Wisley, Surrey ..	150	55	29th	32	1st	46·6	38·7	42·8	+ 4·2	5	1·18	30	+ 19	Salisbury	•	•	•	2	24	42·9	•	•	•
a Tunbridge Wells ..	354	53	29th	31	4th	46·6	38·0	42·5	+ 4·2	6	1·30	33	+ 17	Wisley	1·3	- 0·1	17	2	20	42·7	+2·0	45·9	+1·4
a Margate	51	55	29th	33	1, 2	47·6	38·9	43·4	+ 3·7	6	0·81	21	+ 11	Tunbridge Wells	0·9	- 0·5	12	3	21	43·8	+4·3	46·6	•
														Margate	1·3	- 0·1	17	1	30	44·7	+2·5	47·0	+1·8
a Dungeness	21	52	29th	30	1, 2	47·6	39·1	43·5	+ 3·6	6	1·14	29	+ 17	Folkestone ..	1·0	—	13	•	•	•	•	47·6	•
p St. Leonards	178	53	29th	33	4th	48·4	39·3	44·0	+ 3·9	7	1·07	27	+ 13	St. Leonards ..	1·0	- 0·8	13	1	28	42·7	•	46·9	•
p Southampton	64	54	29th	31	4th	47·6	38·4	43·2	+ 2·8	6	1·45	37	+ 20	Southampton ..	0·9	- 0·6	11	3	21	•	•	•	•
a Ventnor	59	52	29th	35	1, 4	48·7	42·1	45·5	+ 3·3	7	1·75	45	+ 29	Ventnor	0·4	- 1·3	5	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	55	29th	33	1st	46·1	39·1	42·7	+ 3·6	6	1·10	28	+ 17	Richmond ..	1·4	+ 0·2	18	1	23	42·1	+1·5	46·0	+0·9
a Westminster	27	54	29th	34	1st	47·4	39·7	43·7	+ 3·7	5	0·97	25	+ 15	Westminster ..	1·1	+ 0·5	14	2	29	•	•	•	•
ag Greenwich	149	55	29th	33	1st	46·4	38·9	42·8	+ 2·9	6	0·87	22	+ 12	Greenwich ..	1·7	+ 0·5	22	3	26	•	•	•	•
a Hampstead	450	—	—	—	—	—	—	—	—	—	—	—	—	Hampstead ..	—	—	—	—	—	•	•	•	•
ag Camden Square ..	110	55	29th	32	1st	46·7	38·9	43·0	+ 3·9	6	1·16	29	+ 18	Camden Square	0·6	- 0·1	8	3	25	•	•	•	•
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	46	29, 1	29	1st	41·4	33·9	37·8	- 0·2	7	1·39	35	+ 14	Aspatria.. ..	0·1	- 1·0	1	4	23	39·7	-0·8	43·6	-0·6
p Newton Rigg	559	49	29th	26	1st	41·6	32·1	37·0	+ 0·3	7	1·17	30	+ 9	Newton Rigg ..	0·2	- 0·8	3	5	20	38·9	-0·3	41·9	0·0
p Stonyhurst	375	49	29th	30	1st	43·1	35·9	39·6	+ 1·7	7	2·31	59	+ 33	Stonyhurst ..	0·5	- 0·3	7	1	24	•	•	•	•
p Blackpool	66	49	29th	32	1st	43·7	37·3	40·6	+ 1·7	7	1·67	42	+ 25	Blackpool ..	1·4	+ 0·3	19	3	20	41·8	•	45·8	•
a Southport	37	50	29th	31	1st	43·4	36·6	40·1	+ 1·2	7	1·50	38	+ 22	Southport ..	2·1	+ 1·0	28	2	23	39·3	+0·7	42·9	+1·1
														Hoylake ..	2·3	+ 1·0	31	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	53	29th	34	1st	44·9	38·1	41·6	+ 2·6	6	0·69	17	+ 3	Liverpool ..	2·6	—	35	2	30	•	•	•	•
a Hawarden Bridge ..	22	54	29th	35	4th	46·6	38·9	42·9	+ 2·7	5	0·40	10	- 2	Manchester(City)	0·4	+ 0·1	5	1	28	40·2	+0·8	44·4	+0·3
p Manchester (Whit. Pk.)	125	52	29th	31	1st	44·7	36·1	40·6	+ 1·4	6	1·93	49	+ 33	Whitworth Park	0·9	+ 0·5	12	•	•	•	•	•	•
b. NORTH WALES.																							
p Llandudno	16	54	1st	34	4th	47·6	39·0	43·5	+ 1·9	7	0·33	8	- 8	Llandudno ..	1·1	- 0·2	15	•	•	•	•	•	•
a Holyhead ..	15	52	29th	36	1, 4	46·3	40·7	43·6	+ 1·5	7	1·34	34	+ 14	Holyhead ..	1·7	—	23	1	26	•	•	•	•
a Beddgelert	309	—	—	—	—	—	—	—	—	—	—	—	—	Aberdovey ..	—	—	—	—	—	—	—	—	—
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		mm	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
8. *a*. SOUTH WALES.																						
a Aberystwyth	59	49	29th	33	1st	46·0	38·3	42·3	—	6	0·77	20	—	Aberystwyth ..	1·9	+ 0·5	25	•	•	•	•	•	•
a Rhayader	757	51	29th	28	1st	43·7	36·6	40·3	—	7	1·18	30	—	Rhayader ..	1·0	—	13	3	22	•	•	•	•
a St. Ann's Head ..	149	52	29th	37	1st	48·3	42·1	45·3	+ 2·2	5	0·81	21	- 1	St. Ann's Head	2·4	+ 0·9	31	•	•	•	•	•	•
p Cardiff	202	51	29th	30	4th	46·7	37·0	42·0	+ 2·7	5	1·29	33	+ 9	Cardiff	1·6	—	21	2	21	43·0	+1·8	46·5	+1·4
b. ENGLAND, S.W.																						
a Bath	66	56	29th	30	4th	47·0	38·6	43·0	+ 3·4	6	2·11	54	+ 38	Bath	•	•	•	•	•	43·8	+2·4	47·5	+1·5
a Shaftesbury	722	52	29th	29	4th	43·6	36·3	40·1	+ 2·1	6	2·06	52	+ 35	Shaftesbury ..	•	•	•	•	•	42·0	•	45·9	•
a Arlington ..	613	50	29th	29	4th	44·4	39·0	41·8	+ 2·2	7	2·15	55	+ 24										
a Hartland Quay ..	100	—	—	—	—	—	—	—	—	—	—	—	—										
a Newquay	190	52	29, 1	31	4th	47·6	40·0	44·0	+ 0·1	7	1·16	30	+ 10	Newquay ..	0·9	- 0·8	11	2	22	46·6	•	49·7	•
a Cullompton	202	54	29th	27	4th	45·9	37·4	41·8	+ 1·8	6	1·72	44	+ 23	Cullompton ..	1·0	- 0·3	13	3	19	44·2	•	•	•
a Portland Bill	19	53	29th	35	4th	48·3	42·9	45·7	+ 2·8	6	2·17	55	+ 41	Weymouth ..	1·1	—	14	•	•	•	•	•	•
p Plymouth	116	52	29, 1	31	4th	47·6	38·6	43·3	+ 0·6	7	1·63	41	+ 19	Plymouth ..	1·3	- 0·3	16	3	25	44·6	+0·8	48·8	•
a Falmouth	167	53	29th	32	4th	47·3	40·4	44·0	+ 0·2	7	1·35	47	+ 18	Falmouth ..	1·4	- 0·4	18	2	27	45·9	•	49·1	•
9. IRELAND, N.																						
a West .. { *a* Malin Head	208	48	29th	35	1, 4	44·4	38·0	41·3	+ 0·3	7	1·54	39	+ 22	Malin Head ..	1·0	—	14	•	•	•	•	•	•
a Blacksod Point ..	327	52	29th	33	4th	45·9	37·3	41·8	- 0·9	7	1·26	32	+ 1	Markree Castle	1·9	+ 0·7	26	4	23	42·5	+0·5	46·0	+0·6
p Markree Castle ..	122	52	29th	30	31, 4	44·9	34·1	39·7	+ 0·2	6	0·82	21	- 3										
b, East .. { *p* Armagh	196	51	29th	31	31st	42·3	34·6	38·6	- 0·7	7	1·50	38	+ 22	Armagh	1·6	+ 0·3	22	4	22	41·5	+0·6	45·1	+0·9
a Donaghadee	101	50	29th	33	4th	44·0	36·6	40·5	0·0	6	1·30	33	+ 17										
10. IRELAND, S.																						
p Dublin, City	47	53	29th	33	31, 1	45·1	36·7	41·1	- 0·7	7	0·72	18	+ 4	Trinity Coll. ..	•	•	•	•	•	—	—	—	—
a Birr Castle	175	52	29th	31	1st	44·6	37·7	41·3	+ 1·4	6	0·75	19	+ 1	Phœnix Park ..	2·3	+ 0·7	31	3	20	•	•	•	•
a Kilkenny	212	52	1st	30	1st	45·0	37·3	41·3	+ 1·3	7	0·65	17	- 3	Dublin City ..	•	•	•	2	29	•	•	•	•
a Waterford	120	52	29, 1	32	1st	46·1	37·3	41·9	0·0	6	0·65	16	- 8	Birr Castle ..	1·6	+0·1	22	2	25	•	•	•	•
p Seskin, Carrick-on-Suir	541	54	29th	31	1st	44·1	36·4	40·4	—	5	0·52	13	—	Seskin	3·0	—	40	2	29	•	•	•	•
a Cahir	199	—	—	—	—	—	—	—	—	—	—	—	—										
a Foynes	50	53	1st	33	4th	46·0	38·1	42·2	+ 0·2	6	1·18	30	+ 5										
a Cahirciveen (Val. Obs.)	30	53	1st	29	4th	48·0	40·6	44·5	0·0	7	1·65	42	+ 6	Cahirciveen ..	2·5	+ 1·1	33	1	24	•	•	•	•
a Killarney	174	54	1st	28	4th	47·2	37·7	42·6	- 0·2	6	1·17	30	- 9	Ballinacurra ..	3·4	+ 1·8	44	•	•	•	•	•	•
a Roche's Point	32	53	29, 1	33	4th	47·3	40·0	43·8	+ 0·1	5	0·70	18	- 10										
11. ENGLISH CHANNEL.																						
a Scilly, St. Mary's ..	131	52	29, 1	33	4th	49·3	42·7	46·1	0·0	7	1·19	30	+ 10	Scilly	1·3	- 0·5	16	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	55	29th	39	1, 2, 4	49·6	44·1	47·0	+ 3·6	6	1·77	45	+ 25	St. Heliers ..	0·6	- 1·4	7	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	53	29th	38	4th	48·9	43·7	46·4	+ 2·6	6	2·02	51	+ 30	Guernsey† ..	0·7	- 1·1	9	0	34	46·9	+1·8	49·8	+1·7

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, January 4th, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time. day.	hr.	Highest Gust. Speed.	Date d.	h.	m.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.			m/s.			
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	28, 30, 31, 1	20	70	67	11	0	157	15	1	9	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	2	83	82	1	?	6	1	8	14	4	19	15
Aberdeen	153	105	52	—	—	—	—	29	83	46	10	23	9	4	20	17	1	8	20
Edinburgh	486	39	31	1	1	1, 2	5	61	77	24	0	191	18	1	10	26	1	9	30
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	30, 1, 2	19	63	46	40	0	220	17	1	21	27	1	20	50
Paisley	188	81	15	—	—	—	—	11	83	74	0	191	7	1	8	19	2	14	25
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	53	55	60	0	360	8	4	14	18	2	8	15
South Shields	72	61	12	—	—	2, 4	17	62	59	30	0	293	13	2	7	20	2	10	5
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	2, 4	5	58	89	16	0	225	12	2	10	—	—	—	—
Gorleston	52	42	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Shoeburyness	103	90	‡	—	—	29, 1, 4	9	114	43	2	0	203	16	1	21	24	29	15	50
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	1	4	72	81	9	2	180	12	1	17	19	1	16	30
5. ENGLAND, S.E.																			
Warlingham	642	33	‡	—	—	1	4	63	100	1	0	—	12	1	19	21	1	18	0
Brighton	261	53	6	—	—	1, 2	6	89	67	6	0	—	13	1	22	21	1	19	35
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	29, 31, 1, 2	37	88	41	2	0	130	15	1	17	27	1	23	15
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	34	101	33	0	203	8	1	21	15	2	11	5
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	2	11	24	63	63	7	247	15	2	5	25	2	5	30
Fleetwood (Cup Anr.) ..	109	44	—	2	8	29 to 2	34	65	54	7	0	259	28	2	5	—	—	—	—
Southport	80	62	48	1, 2	16	29 to 3	44	62	41	5	0	259	27	2	4	38	2	3	55
Holyhead	60	40	‡	29, 1, 2	11	29 to 3	67	52	34	4	0	259	22	2	5	31	2	2	15
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	1	5	29 to 4	46	72	18	11	14	203	18	1	13	25	1	13	30
Plymouth	185	88	2	—	—	1, 2	9	89	52	18	0	—	17	1	17	24	1	16	10
Lyme Regis	556	61	‡	—	—	29, 31, 1	10	89	46	20	3	—	14	1	18	23	1	23	15
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	1, 2	6	29, 30, 1 to 3	42	74	42	4	0	236	20	1	17	—	—	—	—
Quilty	100	40	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cahirciveen (Val. Obs.)	98	41	‡	—	—	29, 30, 1 to 3	52	75	27	14	0	285	15	1	18	26	1	20	40
Weaver Pt.	160	30	‡	—	—	29, 30, 1	19	105	40	3	1	—	14	30	18	25	1	21	55
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

† More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.] * Above tops of trees.
‡ Standard mounting. Direction from the Robinson Anemometer at Falmouth Observatory ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FIRST WEEK of 1919—December 29th, 1918, to January 4th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	44	22	77·2	72·2	74·8	− 1·6	0	− 6	48	+ 13	5	0	0·99	25	− 4	0·7	0·0	10	994
Eastern.																			
1. SCOTLAND, EAST ...	44	16	76·7	72·1	74·4	− 1·3	0	− 6	52	+ 10	6	+ 2	1·63	41	+ 25	0·5	−0·5	8	993
2. ENGLAND, N.E.	53	27	79·2	74·7	77·1	+ 0·8	3	− 4	26	− 9	7	+ 3	1·67	43	+ 30	0·9	−0·1	12	994
3. ENGLAND, EAST ...	55	29	80·4	75·7	78·2	+ 2·0	9	0	22	− 17	6	+ 2	1·00	25	+ 12	1·5	+0·1	19	998
4. MIDLAND COUNTIES ...	55	23	80·0	75·5	77·8	+ 1·6	7	− 2	22	− 18	6	+ 2	1·46	37	+ 22	1·3	+0·1	17	997
5. ENGLAND, S.E.	55	28	81·3	76·7	79·1	+ 1·9	21	+ 8	9	− 20	6	+ 2	1·40	36	+ 22	0·9	−0·5	12	999
Western.																			
6. SCOTLAND, WEST ...	51	26	78·4	73·8	76·2	− 0·8	0	− 9	29	0	6	+ 1	1·82	46	+ 18	1·2	+0·2	17	994
7. ENGLAND, N.W.	54	26	79·9	75·7	77·9	+ 0·8	7	− 3	21	− 7	7	+ 3	1·24	31	+ 12	1·1	+0·1	15	995
8. ENGLAND, S.W.	56	27	80·9	76·8	78·9	+ 0·7	18	+ 1	9	− 13	6	+ 1	1·70	43	+ 20	1·4	−0·1	18	999
9. IRELAND, NORTH ...	52	30	79·9	75·4	77·7	0·0	7	− 6	22	− 3	7	+ 2	1·20	30	+ 9	1·8	+0·5	24	994
10. IRELAND, SOUTH ...	54	28	80·9	76·4	78·7	+ 0·1	18	− 2	11	− 8	6	+ 1	0·93	24	− 1	2·5	+0·9	32	998
11. ENGLISH CHANNEL ...	55	33	82·6	79·4	81·1	+ 1·0	32	+ 5	0	− 9	6	+ 1	1·66	42	+ 22	0·9	−1·0	11	1002

THE SEASON (Winter).—Aggregates, &c., for the Period of 5 Weeks, December 1st, 1918, to January 4th, 1919.

0. SCOTLAND, NORTH ...	59	22	79·7	75·0	77·4	+ 0·6	65	+ 24	132	− 21	27	0	6·26	159	− 10	0·8	+0·2	12	999
Eastern.																			
1. SCOTLAND, EAST ...	59	16	79·4	74·3	76·9	+ 0·8	66	+ 29	162	− 29	24	+ 3	3·69	93	+ 6	1·2	+0·2	17	1001
2. ENGLAND, N.E.	60	25	81·2	76·1	78·8	+ 1·8	94	+ 49	91	− 61	26	+ 6	4·14	105	+ 40	1·1	−0·1	15	1004
3. ENGLAND, EAST ...	59	27	82·1	76·8	79·6	+ 2·6	117	+ 63	78	− 84	29	+ 8	3·63	94	+ 29	1·2	−0·1	15	1008
4. MIDLAND COUNTIES ...	59	25	82·2	76·7	79·5	+ 2·7	122	+ 65	80	− 93	29	+ 8	4·49	115	+ 38	1·1	0·0	15	1007
5. ENGLAND, S.E.	59	22	82·9	78·0	80·6	+ 2·6	168	+ 86	46	− 72	29	+ 9	3·68	94	+ 8	1·1	−0·3	15	1009
Western.																			
6. SCOTLAND, WEST ...	57	24	80·7	76·3	78·6	+ 1·0	89	+ 30	89	− 32	31	+ 7	7·61	193	+ 36	1·0	+0·1	14	1003
7. ENGLAND, N.W.	58	24	82·0	77·4	79·3	+ 2·1	124	+ 61	66	− 54	29	+ 7	6·50	165	+ 61	0·9	−0·1	13	1005
8. ENGLAND, S.W.	59	25	83·0	78·5	80·8	+ 2·0	182	+ 82	26	− 58	30	+ 6	7·30	186	+ 47	1·3	−0·1	16	1009
9. IRELAND, NORTH ...	60	30	82·2	77·3	79·9	+ 1·8	138	+ 67	60	− 47	31	+ 5	5·74	144	+ 30	1·5	+0·3	21	1002
10. IRELAND, SOUTH ...	60	27	83·2	78·1	80·7	+ 1·7	186	+ 75	34	− 47	29	+ 4	6·49	165	+ 22	1·8	+0·3	23	1006
11. ENGLISH CHANNEL ...	57	33	84·1	80·8	82·5	+ 1·8	248	+ 86	0	− 26	30	+ 4	5·60	143	+ 24	1·3	−0·5	16	1012

THE YEAR 1919.—Aggregates, &c., for the Period of 1 Week, December 29th, 1918, to January 4th, 1919.

0. SCOTLAND, NORTH ...	44	22	77·2	72·2	74·8	− 1·6	0	− 6	48	+ 13	5	0	0·99	25	− 4	0·7	0·0	10	994
Eastern.																			
1. SCOTLAND, EAST ...	44	16	76·7	72·1	74·4	− 1·3	0	− 6	52	+ 10	6	+ 2	1·63	41	+ 25	0·5	−0·5	8	993
2. ENGLAND, N.E.	53	27	79·2	74·7	77·1	+ 0·8	3	− 4	26	− 9	7	+ 3	1·67	43	+ 30	0·9	−0·1	12	994
3. ENGLAND, EAST ...	55	29	80·4	75·7	78·2	+ 2·0	9	0	22	− 17	6	+ 2	1·00	25	+ 12	1·5	+0·1	19	998
4. MIDLAND COUNTIES ...	56	28	80·0	75·5	77·8	+ 1·6	7	− 2	22	− 18	6	+ 2	1·46	37	+ 22	1·3	+0·1	17	997
5. ENGLAND, S.E.	55	28	81·3	76·7	79·1	+ 1·9	21	+ 8	9	− 20	6	+ 2	1·40	36	+ 22	0·9	−0·5	12	999
Western.																			
6. SCOTLAND, WEST ...	51	26	78·4	73·8	76·2	− 0·8	0	− 9	29	0	6	+ 1	1·82	46	+ 18	1·2	+0·2	17	994
7. ENGLAND, N.W.	54	26	79·9	75·7	77·9	+ 0·8	7	− 3	21	− 7	7	+ 3	1·24	31	+ 12	1·1	+0·1	15	995
8. ENGLAND, S.W.	56	27	80·9	76·8	78·9	+ 0·7	18	+ 1	9	− 13	6	+ 1	1·70	43	+ 20	1·4	−0·1	18	999
9. IRELAND, NORTH ...	52	30	79·9	75·4	77·7	0·0	7	− 6	22	− 3	7	+ 2	1·20	30	+ 9	1·8	+0·5	24	994
10. IRELAND, SOUTH ...	54	28	80·9	76·4	78·7	+ 0·1	18	− 2	11	− 8	6	+ 1	0·93	24	− 1	2·5	+0·9	32	998
11. ENGLISH CHANNEL ...	55	33	82·6	79·4	81·1	+ 1·0	32	+ 5	0	− 9	6	+ 1	1·66	42	+ 22	0·9	−1·0	11	1002
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: COL. H. G. LYONS, R.E., F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: January 10th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 2.

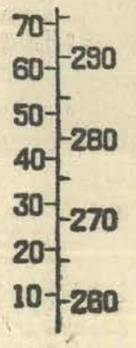
THE SECOND WEEK OF 1919.

SUNDAY, JANUARY 5TH, TO SATURDAY, JANUARY 11TH, 1919.

Price 6d., Post free 6½d
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d

I.—GENERAL SUMMARY. [First published in 1878.]

A depression appeared off our south-west coasts on Monday, and the system, which moved slowly northwards, remained the dominant factor in the weather over the British Isles until the end of the week. The winds varied as the disturbance changed its position, being mostly from S. or S.W. over the southern half of the United Kingdom, but variable Easterly in the north. Gales were experienced on the 9th in most districts. The mean temperature for the week was below the normal in Ireland, just equal to it in England N.W., but in all other Districts it was above it. No abnormally high or low temperatures were recorded. Excepting at a few extreme southern and south-western stations the absolute maxima were below 283 a. and occurred generally on the 8th and 9th. The lowest temperatures were on various days. At Balmoral on the 7th the minimum in the screen was 265 a. and that on the grass 264 a; grass minima of about 266 a. were recorded in nearly all other districts. Beginning with the forty-eighth week of 1918, the mean temperature has been continuously above the normal in all parts of England. Days of precipitation have again been numerous, seven in the southern half of England; in England S.E., England S.W., and Ireland S., the total rainfall greatly exceeded the normal; the quantity decreased further to the northward and in Scotland N. it was below normal. At the beginning of the week in some parts of Scotland and the north of England "snow lying" to a depth of 10 centimetres was reported. Precipitation of 20mm. or more was registered on the 6th in the south of Ireland, Cahirciveen 48mm., Seskin 27mm., and at Scilly 21mm.; on the 9th at Newton Rigg 26mm., and Beddgelert 39mm., and on the 10th at Ventnor 25mm. Thunderstorms occurred in various parts of Hampshire on the 9th and 10th. A solar halo was seen at Oxford on the 10th and lunar halos at various places on the 6th, 7th, 8th and 9th. Displays of aurora borealis were witnessed in the north and east of Scotland on the 5th, 6th and 7th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	—	—	21	4·7	25	4·5	22	4·5	21	6·1	15	5·2	20	5·9	13	4·0
North	—	—	4	6·2	2	2·6	4	2·1	6	7·0	8	8·4	5	4·1	13	3·3
West	—	—	7	5·4	5	2·0	17	2·5	10	6·5	25	8·9	17	5·5	15	8·0
East	—	—	14	3·3	20	3·0	8	2·5	14	4·4	1	2·8	10	7·2	9	2·6
Calm	—	—	0	—	1	—	2	—	0	—	0	—	1	—	1	—

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).]		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Unusual	Moderate	Unusual	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate
	Rainfall ...	Moderate	Moderate	Moderate	Heavy	Moderate	Very heavy	Moderate	Heavy	Heavy	Heavy	Heavy	Heavy
	Sunshine ...	Scanty	Moderate	Moderate	Moderate	Abundant	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

WINTER. 6 weeks from Dec. 1st, 1918.	Warmth ...	2, 2, 2	2, 3, 1	2, 4, 0	4, 2, 0	2, 4, 0	4, 2, 0	2, 4, 0	2, 4, 0	3, 3, 0	3, 3, 0	2, 3, 1	3, 3, 0
	Rainfall ...	1, 5, 0	2, 3, 1	3, 2, 1	5, 1, 0	3, 3, 0	2, 3, 1	3, 3, 0	4, 2, 0	5, 1, 0	4, 2, 0	4, 2, 0	4, 1, 1
	Sunshine ...	2, 2, 2	3, 1, 2	1, 3, 2	0, 4, 2	2, 2, 2	0, 3, 3	1, 4, 1	1, 4, 1	0, 5, 1	3, 2, 1	1, 4, 1	0, 3, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(21264—19.) Wt. 199—789. 625. 1/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM

['TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.				Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Deviation from Average	Earth 4 ft Mean.	Earth 4 ft Deviation from Average
c. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
a Lerwick	54	44	8th	33	7th	42·0	36·1	39·2	+ 0·7	7	0·91	23	+ 1										
a Houton Bay	—	43	9th	34	5th	40·3	36·6	38·5	—	—	—	—	—										
a Stornoway	51	45	8, 9	33	5th	42·6	37·0	39·9	+ 1·2	7	1·34	34	+ 7	Deerness ..	0·1	- 0·8	2	•	•	•	•	•	•
a Castlebay, Barra Isd.	37	46	10, 11	36	6th	44·0	39·6	41·9	—	7	1·77	45	—	Stornoway ..	0·2	- 0·6	3	•	•	•	•	•	•
														Castlebay ..	0·6	—	9	•	•	•	•	•	•
a Wick	81	46	9th	35	7th	43·4	39·0	41·3	+ 3·9	5	0·53	14	+ 1										
a Strathpeffer	125	44	10, 11	30	7, 9	41·9	32·3	37·3	+ 0·7	3	0·48	12	- 4										
p Glencarron	500	45	8th	29	7th	41·0	34·7	38·0	+ 1·5	6	0·70	18	- 33										
a Fort Augustus ..	88	46	10th	26	5th	41·9	33·7	38·0	+ 0·9	3	1·15	29	+ 2	Fort Augustus ..	—	—	—	•	•	•	•	•	•
p Fort William	171	46	7-9	30	7th	43·1	35·9	39·6	+ 1·3	5	0·63	16	- 32										
1. SCOTLAND, E.																							
a Nairn	82	44	9, 10	25	7th	41·3	31·9	36·8	+ 0·2	4	0·64	16	+ 6	Nairn	1·3	—	19	•	•	•	•	•	•
p Gordon Castle ..	101	45	9, 10	26	7th	42·3	34·4	38·5	+ 1·0	6	1·05	27	+ 16	Gordon Castle ..	1·3	—	19	•	•	•	•	•	•
a Aberdeen	46	46	9th	30	7th	43·3	36·9	40·2	+ 3·0	6	0·41	10	- 2	Aberdeen ..	0·3	- 1·0	4	1	19	•	•	39·8	-0·6
a Balmoral	930	40	9, 10	18	7th	38·1	31·7	35·0	+ 1·3	5	0·94	24	+ 10	Balmoral ..	•	•	•	2	16	•	•	•	•
p Crieff	432	43	9th	30	7th	41·0	34·4	37·8	+ 1·5	7	0·53	13	- 8	Crathes	0·3	- 1·1	4	4	19	34·6	-0·9	37·8	-0·8
a Dundee	244	44	9th	27	7th	41·6	33·3	37·6	+ 1·2	5	0·41	10	- 1	Dundee	1·0	—	14	3	23	34·0	•	•	•
a Leith	30	46	9th	32	7th	42·9	36·4	39·8	+ 1·2	4	0·15	4	- 5	Leith	—	—	—	3	24	•	•	•	•
p Edinburgh	441	44	9th	31	7th	41·6	34·9	38·4	+ 1·0	3	0·22	6	- 3	Edinburgh ..	2·0	+ 0·6	28	3	26	•	•	•	•
a West Linton	769	42	9th	26	7th	39·9	32·9	36·5	+ 2·9	4	0·52	13	—	West Linton ..	1·8	—	25	7	19	•	•	•	•
p Marchmont	498	44	9th	28	7th	40·4	31·0	35·9	+ 0·1	6	0·41	10	- 2	Marchmont ..	1·3	+ 0·2	18	•	•	•	•	•	•
6. *a*. SCOTLAND, W																							
a Ford (Argyll) ..	149	—	—	—	—	—	—	—	—	—	—	—	—	Ford (Argyll) ..	•	•	•	—	—	—	•	•	•
p Glasgow Observatory	180	45	9th	33	7th	42·6	36·0	39·4	+ 1·0	6	0·36	9	- 8	Glasgow	0·8	+ 0·2	11	1	27	•	•	•	•
p Rothesay	200	45	9th	31	5th	42·3	35·9	39·2	- 0·1	7	0·65	16	- 7	Rothesay	1·2	—	17	2	25	38·1	•	42·0	-0·8
a Kilmarnock	90	46	8th	32	6, 7	43·0	36·1	39·7	+ 2·4	4	0·50	13	- 5	Kilmarnock ..	1·4	—	20	•	•	37·3	•	41·8	•
a Colmonell	170	45	9, 10	30	5th	43·3	35·0	39·3	+ 0·6	7	1·50	38	+ 16	Colmonell ..	•	•	•	2	28	•	•	•	•
p Cally, Gatehouse ..	120	45	9-11	31	7th	43·0	35·6	39·5	+ 1·4	7	1·19	30	+ 7	Dumfries ..	1·7	—	23	3	25	38·0	-0·4	41·8	+0·3
p Dumfries	160	45	9th	33	6, 7	42·6	35·3	39·1	+ 1·4	5	0·62	16	+ 1	Eskdalemuir ..	1·3	—	18	4	21	•	•	•	•
a Eskdalemuir	794	42	9th	27	7th	39·3	31·9	35·8	—	7	0·95	24	—										
b. I. OF MAN *p* Douglas	277	46	9th	36	5, 11	43·6	38·1	41·0	+ 0·4	7	1·56	40	+ 22	Douglas	1·2	- 0·3	16	? 1	29	•	•	•	•
2. ENGLAND, N.E																							
a Alnwick Castle ..	210	45	9th	30	7th	43·6	35·6	39·8	+ 2·2	5	0·80	20	+ 7										
a Tynemouth	71	46	9th	35	7, 11	43·4	37·0	40·3	+ 2·0	3	0·29	7	- 3	Cockle Park ..	0·9	- 0·5	12	3	24	36·8	-0·1	39·9	-0·3
p Durham	336	44	9th	30	7, 11	41·4	33·4	37·6	+ 0·9	6	0·50	13	+ 3	Durham	1·2	0·0	16	3	20	•	•	•	•
a North .. *p* Rounton	249	45	9th	30	11th	41·4	34·1	37·9	+ 1·2	5	0·33	8	- 2	Rounton	•	•	•	6	21	37·7	•	•	•
a West Witton	605	43	9th	31	6, 7	40·0	33·4	36·8	—	6	1·44	37	—	West Witton ..	•	•	•	5	26	36·9	•	40·6	•
p Scarborough	100	46	9th	33	11th	43·6	35·4	39·7	+ 1·3	4	0·64	14	+ 2	Scarborough† ..	2·2	+ 1·0	30	•	•	•	•	39·3	•
p York	56	46	9th	31	5th	41·4	34·6	38·1	+ 0·5	4	0·12	3	- 7	York	0·0	- 0·9	0	—	—	38·7	-0·4	42·8	+0·2
a Spurn Head	26	46	9th	33	5th	42·6	36·9	39·9	+ 1·7	4	0·48	12	+ 4	Spurn Head ..	0·3	—	4	•	•	•	•	•	•
b. South .. *a* Lincoln	58	47	9th	30	5th	42·3	34·0	38·3	+ 1·4	5	0·18	5	- 5	Lincoln	•	•	•	3	26	37·9	+0·6	43·0	+0·9
a Fulbeck	180	48	9th	30	5th	42·3	33·7	38·2	+ 1·4	6	0·31	8	- 2	Rauceby ..	—	—	—	3	•	—	—	•	•
														Skegness ..	1·9	+ 0·1	25	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	48	8-10	32	5, 11	44·9	34·9	40·1	+ 2·7	5	0·71	18	+ 10	Cromer	2·0	+ 0·3	26	•	•	•	•	•	•
a Little Massingham ..	280	47	9th	30	5th	42·7	32·9	38·0	+ 1·6	6	0·48	12	+ 1	Lit. Massingham	2·0	+ 0·6	26	•	•	•	•	•	•
a Yarmouth	13	48	9th	34	7th	44·1	37·0	40·7	+ 3·4	5	1·03	26	+ 16	Yarmouth ..	?	—	?	0	31	42·0	+3·0	46·0	+2·1
a Norwich	93	47	9th	32	5th	43·6	35·7	39·8	+ 2·9	5	0·74	19	+ 8	Norwich ..	1·2	—	16	4	28	38·1	•	•	•
a Geldeston	37	49	9th	32	6th	45·1	35·4	40·4	+ 2·8	5	0·83	21	+ 12	Geldeston ..	1·2	- 0·3	16	•	•	•	•	•	•
p Cambridge	41	48	9th	30	11th	43·7	35·7	39·9	+ 2·7	3	0·19	5	- 3	Cambridge ..	1·2	- 0·3	15	5	27	40·2	+1·1	44·7	+1·1
a Clacton-on-Sea ..	54	46	8, 9	36	5, 6	43·6	38·3	41·1	+ 3·7	6	0·76	19	+ 12	Clacton	1·0	- 0·6	13	0	33	41·9	+1·3	46·0	+0·9
a Rothamsted	424	46	8, 9	29	6th	42·6	34·4	38·7	+ 1·9	6	0·40	10	- 1	Rothamsted ..	1·1	- 0·4	14	4	24	39·4	•	•	•
p Tottenham	51	48	8, 9	34	6th	44·7	38·0	41·5	—	6	0·62	16	—	Tottenham ..	0·0	—	0	1	30	•	•	45·5	+0·4
4. MIDLAND COUNTIES.																							
a Harrogate	478	44	9th	30	5, 7	40·7	32·6	36·8	+ 0·7	5	0·35	9	- 3	Harrogate ..	1·3	- 0·2	18	3	26	38·0	-0·9	40·9	-0·1
a North .. *p* Sheffield	429	45	9th	30	5th	41·4	34·1	37·9	—	4	0·28	7	—	Sheffield ..	1·3	+ 0·1	17	2	25	37·8	-0·6	43·1	+0·5
p Buxton	987	—	—	—	—	—	—	—	—	—	—	—	—	Buxton	—	—	—	—	—	—	—	—	—
a Bawtry	65	46	9th	26	5th	41·3	33·0	37·3	+ 0·6	3	0·13	3	- 5	Worksop ..	0·7	- 0·4	9	5	18	37·9	•	41·8	•
a Nottingham	82	47	9th	25	5th	42·6	33·4	38·2	+ 1·2	4	0·18	5	- 4	Nottingham ..	1·6	+ 0·6	21	5	24	36·7	-1·0	41·1	+0·1
b. East .. *p* Birmingham, Edgbsn.	535	45	9th	31	5th	40·7	34·3	37·6	+ 0·5	5	0·46	12	+ 2	Birmingham ..	1·7	+ 0·7	22	5	26	39·2	-1·2	•	•
a Raunds	203	48	9th	31	5th	44·0	33·4	38·9	+ 2·9	3	0·10	3	- 5	Raunds	2·7	—	35	6	24	41·1	•	46·4	•
p Oxford	268	47	9th	33	6th	42·9	36·6	39·9	+ 2·1	6	0·27	7	- 2	Oxford	1·8	+ 0·3	23	3	27	•	•	•	•
														Malvern ..	2·1	—	27	6	22	37·9	—	43·5	•
a Cheadle (N. Staffs.) ..	646	43	8, 9	29	5th	39·6	32·6	36·2	+ 0·3	4	0·38	10	- 3	Cheadle	•	•	•	5	27	•	•	•	•
c. West .. *p* Tenbury	313	47	9th	31	5th	42·6	35·0	39·0	+ 0·9	5	0·69	18	+ 9	Tenbury	•	•	•	4	26	38·8	•	•	•
p Ross-on-Wye ..	201	47	9th	33	5th	43·6	36·6	40·2	+ 2·6	6	1·02	26	+ 15	Ross-on-Wye ..	2·0	—	26	3	29	—	—	•	•
a Clifton	228	48	7th	32	5th	44·0	36·4	40·4	+ 1·4	5	0·48	12	- 4	Clifton	2·2	—	28	3	26	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	46	8, 9	30	6th	43·0	34·7	39·0	+ 2·0	7	0·67	17	+ 3	Worthing	1·1	- 0·8	14	2	26	42·4	+1·9	46·9	+1·5
p Salisbury (Wilton) ..	180	48	9th	29	6th	44·6	34·4	39·7	+ 2·2	6	1·64	42	+ 26	Marlborough ..	1·2	- 0·1	15	3	20	39·7	•	45·6	•
a Wisley, Surrey ..	150	50	8th	32	6th	45·1	38·3	41·8	+ 4·0	6	1·32	34	+ 24	Salisbury	•	•	•	3	24	40·3	•	•	•
a Tunbridge Wells ..	354	48	8, 9	32	6th	44·0	36·9	40·6	+ 3·2	7	2·03	52	+ 38	Wisley	2·0	+ 0·4	25	5	23	40·8	+0·9	45·2	+1·3
a Margate	51	49	8, 9	34	5th	46·1	38·0	42·2	+ 3·3	6	0·91	23	+ 14	Tunbridge Wells	0·8	- 0·8	10	1	23	42·1	+3·9	45·8	•
														Margate	0·9	- 0·7	11	1	30	42·5	+1·3	46·2	+1·8
a Dungeness	21	49	8, 9	37	5, 6	46·4	39·7	43·2	+ 4·2	7	0·83	21	+ 10	Folkestone ..	0·6	—	8	•	•	•	•	47·0	•
p St. Leonards	178	49	8-10	32	11th	47·0	39·3	43·3	+ 4·1	7	1·32	34	+ 21	St. Leonards ..	1·0	- 0·9	13	2	29	42·1	•	46·2	•
p Southampton	64	49	8, 9	31	6th	46·0	37·7	42·0	+ 2·3	7	1·63	41	+ 26	Southampton ..	1·7	0·0	21	3	21	•	•	•	•
a Ventnor	59	50	8, 9	36	6th	46·6	39·9	43·4	+ 2·1	7	2·30	58	+ 44	Ventnor	1·4	- 0·5	17	•	•	•	•	•	•
LONDON. *a* Richmond (Kew Obs.)	18	49	8th	34	6, 7	44·7	37·1	41·1	+ 2·7	6	1·03	26	+ 16	Richmond	1·3	0·0	16	2	25	40·5	+0·7	45·1	+0·5
a Westminster	27	50	8, 9	32	6th	45·7	37·8	41·9	+ 2·7	6	0·48	12	+ 3	Westminster ..	0·9	+ 0·3	11	3	27	•	•	•	•
ag Greenwich	149	48	8, 9	31	6th	45·0	36·0	40·7	+ 1·5	7	0·61	13	+ 4	Greenwich ..	1·4	+ 0·2	18	5	22	•	•	•	•
a Hampstead	450	—	—	—	—	—	—	—	—	—	—	—	—	Hampstead ..	—	—	—	—	—	—	—	—	—
ag Camden Square ..	110	49	8th	32	6th	44·9	36·7	41·0	+ 2·6	7	0·64	16	+ 6	Camden Square	0·3	- 0·6	4	4	26	•	•	•	•
7. *a*. ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	45	9th	32	5th	41·0	35·0	38·1	+ 0·4	5	0·85	22	+ 5	Aspatria	1·1	- 0·2	15	1	28	38·3	-1·7	42·8	-1·1
p Newton Rigg	550	44	9th	32	7th	40·4	33·4	37·0	+ 0·5	7	1·44	37	+ 20	Newton Rigg ..	1·0	- 0·2	14	5	25	37·9	-0·8	41·2	-0·2
p Stonyhurst	375	45	8th	26	5th	40·8	33·1	37·0	- 0·5	6	1·12	29	+ 7	Stonyhurst ..	1·3	+ 0·4	18	3	22	•	•	•	•
p Blackpool	66	45	8, 9	32	5, 6	42·7	35·1	39·1	+ 0·7	7	0·83	24	+ 10	Blackpool ..	1·2	- 0·2	16	4	21	39·9	•	45·1	•
a Southport	37	45	8, 9	27	5, 6	42·1	33·1	37·8	- 0·6	7	0·79	20	+ 7	Southport ..	1·5	+ 0·2	20	3	19	36·6	-1·3	41·5	+0·2
														Hoylake ..	—	—	—	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	46	9th	34	5th	42·7	36·0	39·5	+ 0·4	4	0·28	7	- 4	Liverpool ..	2·2	—	29	3	29	•	•	•	•
a Hawarden Bridge ..	22	47	9th	31	5th	43·7	35·3	39·7	0·0	4	0·64	16	+ 7	Manchester (City)	0·5	+ 0·1	7	2	26	37·4	-0·9	43·5	0·0
p Manchester (Whit. Pk.)	120	—	—	—	—	—	—	—	—	—	—	—	—	Whitworth Park	—	—	—	•	•	•	•	•	•
b. NORTH WALES.																							
p Llandudno	36	47	9th	36	8, 11	44·3	37·9	41·2	0·0	6	0·95	24	+ 11	Llandudno ..	1·4	- 0·2	18	•	•	•	•	•	•
a Holyhead	15	47	9th	35	5th	45·1	38·9	42·1	+ 0·5	6	1·10	28	+ 12	Holyhead ..	0·8	—	11	0	34	•	•	•	•
a Beddgelert	309	?55	9th	33	5th	46·1	35·3	40·9	—	7	2·86	73	—	Aberdovey ..	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.				Rainfall.			STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average	Earth 4 ft Mean.	Earth 4 ft Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		mm	mm.		hr.		%		°F.	°F.	°F.	°F.	°F.
8. *a*. SOUTH WALES.																						
a Aberystwyth	59	46	8th	33	5th	43·9	37·3	40·7	—	7	0·85	22	—	Aberystwyth ..	1·7	0·0	22	•	•	•	•	•
a Rhayader	757	45	8th	28	5th	41·1	34·1	37·7	—	7	1·72	44	—	Rhayader ..	0·9	—	12	4	27	•	•	•
a St. Ann's Head	149	51	8th	35	5th	47·1	40·4	43·9	+ 1·7	7	1·42	36	+ 18	St. Ann's Head	1·5	− 0·1	19	•	•	•	•	•
p Cardiff	202	47	9th	32	5th	41·4	36·3	40·5	+ 2·1	5	1·05	27	+ 8	Cardiff	1·8	—	23	5	23	40·2	−0·1	45·7	+1·2
b. ENGLAND, S.W.																						
a Bath	66	50	8th	29	11th	45·6	34·1	40·1	+ 1·3	7	0·80	20	+ 7	Bath	•	•	•	•	•	40·8	+0·3	46·3	+1·0
a Shaftesbury	722	46	8th	31	6th	42·1	34·4	38·4	+ 1·3	7	1·25	32	+ 18	Shaftesbury ..	•	•	•	•	•	39·1	•	44·4	•
a Arlington	613	46	8th	29	5th	43·0	35·3	39·3	+ 0·6	7	1·46	37	+ 11										
a Hartland Quay ..	100	—	—	—	—	—	—	—	—	—	—	—	—										
a Newquay	190	49	8th	32	5th	46·9	37·4	42·3	− 0·7	7	1·70	43	+ 27	Newquay ..	2·7	+ 1·0	33	2	28	44·0	•	48·7	•
a Cullompton	202	48	8th	26	5th	44·6	33·1	39·1	− 0·1	7	1·69	43	+ 27	Cullompton ..	1·5	+0·1	19	5	20	41·2	•	•	•
a Portland Bill	19	51	8th	37	6th	47·4	42·3	45·0	+ 3·2	7	1·46	37	+ 25	Weymouth ..	1·7	—	21	•	•	•	•	•	•
p Plymouth	116	50	8, 9	34	5, 11	47·7	39·0	43·5	+ 1·7	6	1·26	32	+ 14	Plymouth ..	2·4	+ 0·7	30	2	29	42·1	−0·8	47·6	•
a Falmouth	167	50	8th	32	5th	47·0	36·1	41·8	− 1·1	7	1·37	48	+ 25	Falmouth ..	2·3	+ 0·5	28	2	28	43·3	•	47·8	•
9. IRELAND, N.																						
a West .. *a* Malin Head	208	45	7, 9	35	7th	43·3	37·7	40·6	+ 0·2	6	0·63	16	+ 1	Malin Head ..	1·7	—	24	•	•	•	•	•	•
a Blacksod Point ..	327	44	7, 8	34	5th	43·0	36·0	39·6	− 2·5	7	1·14	29	0	Markree Castle	0·7	− 0·4	9	4	19	39·8	−1·8	45·3	+0·3
p Markree Castle ..	122	45	7, 9	26	6th	42·6	32·4	37·7	− 1·4	6	1·19	30	+ 7										
b, East .. *p* Armagh	196	45	9th	31	6, 11	41·4	34·3	38·0	− 0·8	5	1·08	28	+ 13	Armagh	1·7	+ 0·3	23	3	27	39·8	−0·7	44·2	+0·5
a Donaghadee	101	47	8th	31	11th	44·1	37·1	40·7	+ 0·7	6	1·07	27	+ 12										
10. IRELAND, S.																						
p Dublin, City	47	46	9th	32	6th	43·4	36·3	40·0	− 1·3	5	0·92	23	+ 10	Trinity Coll. ..	•	•	•	5	19	41·4	+0·1	45·3	+0·8
a Birr Castle	175	44	6, 7, 9	28	7th	42·9	31·6	37·5	− 1·8	5	0·52	13	− 3	Phœnix Park ..	1·4	− 0·3	18	2	21	•	•	•	•
a Kilkenny	212	47	6th	26	6, 7	44·1	31·3	38·0	− 1·4	6	1·30	33	+ 15	Dublin City ..	•	•	•	2	28	•	•	•	•
a Waterford	120	50	6th	30	6th	45·6	33·6	39·8	− 1·5	6	1·46	37	+ 16	Birr Castle ..	2·2	+ 0·7	29	6	20	•	•	•	•
p Seskin, Carrick-on-Suir	541	47	7th	29	6th	43·1	33·3	38·4	—	6	2·20	56	—	Seskin	1·8	—	23	3	24	•	•	•	•
a Cahir	199	45	8th	27	6th	42·6	30·9	37·0	− 3·0	4	1.62	41	—										
a Foynes	50	48	8, 11	34	5, 7	45·0	35·7	40·5	− 0·9	5	1·40	36	+ 14										
a Cahirciveen (Val. Obs.)	30	48	11th	32	5th	46·0	37·4	41·9	− 1·9	7	3·54	90	+ 58	Cahirciveen ..	1·0	− 0·4	13	1	29	•	•	•	•
a Killarney	174	48	11th	29	5th	44·4	35·1	39·9	− 2·2	6	1·82	46	+ 11	Ballinacurra ..	2·2	+ 0·5	28	•	•	•	•	•	•
a Roche's Point	32	49	11th	33	6th	46·0	36·9	41·6	− 1·4	6	1·15	29	+ 5										
11. ENGLISH CHANNEL.																						
a Scilly, St. Mary's ..	131	50	8th	35	5, 6	47·1	39·6	43·5	− 1·8	7	1·85	47	+ 29	Scilly	1·4	− 0·4	17	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	51	8th	40	10th	48·3	42·1	45·3	+ 2·8	5	0·75	19	+ 2	St. Heliers ..	2·4	+ 0·4	29	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	51	8th	39	10th	47·6	40·9	44·4	+ 1·4	7	1·15	29	+ 11	Guernsey† ..	3·1	+ 1·3	37	0	36	44·7	+0·3	48·8	+1·3

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, January 11th, 1919.

DISTRICT AND STATION.	Height.			Distribution of Wind.†								Extreme Velocities.							
	Above Mean Sea Level	Above Ground.	Above Building.	More than 17 m/s or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.			
				Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Veer from N.	Speed.	Mid Time.		Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	20	129	19	0	124	8	9	17	17	9	17	55
Aberdeen	153	105	52	—	—	—	—	66	90	12	0	146	10	9	15	18	9	23	25
Edinburgh	485	39	31	—	—	9, 10	15	69	81	3	0	214	14	10	5	22	10	5	25
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	9, 10	18	58	70	23	0	220	13	9	22	20	10	1	10
Paisley	188	81	15	—	—	—	—	30	124	14	0	225	10	10	4	21	10	3	50
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	9	2	44	67	55	0	180	11	9	19	18	9	14	25
South Shields	72	61	12	—	—	7, 9	18	70	68	12	0	180	13	9	13	23	9	19	5
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	7, 9	12	56	96	4	0	124	16	7	6	—	—	—	—
Gorleston	52	42	‡	—	—	6 to 9	39	97	30	2	0	135	16	9	5	20	7	8	40
Shoeburyness	103	90	‡	—	—	6 to 9	44	82	42	0	0	214	17	9	13	24	9	9	40
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5. ENGLAND, S.E.																			
Warlingham	642	33	‡	—	—	9	2	56	85	0	25	—	11	9	12	23	9		?
Brighton	261	53	6	—	—	6, 7, 9	25	74	62	7	0	—	14	9	3	25	9	10	15
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡‡	9	1	6 to 9	40	81	46	0	0	210	17	9	13	25	9	13	25
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	21	104	43	0	225	9	9	13	18	9	10	10
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	9	1	21	79	67	0	214	11	9	24	17	9	10	5
Fleetwood (Cup Anr.) ..	109	44	—	—	—	9, 10	21	76	60	11	0	225	16	9	24	—	—	—	—
Southport	80	62	48	9	6	7, 9, 10	23	85	50	4	0	225	22	9	21	30	9	20	0
Holyhead	60	40	‡	9	7	6, 7, 9, 10	33	100	28	0	0	236	20	9	19	28	9	19	40
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	6 to 9	27	6 to 10	21	50	50	2	18	157	23	6	22	35	6	21	55
Plymouth	185	88	2	6 to 9	12	6 to 9	32	56	55	13	0	—	26	6	24	32	6	23	45
Lyme Regis	556	61	‡	6 to 8	13	6 to 9	25	52	60	18	0	—	23	6	23	29	6	22	25
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	6 to 9	10	6 to 10	32	59	62	5	0	236	20	9	19	—	—	—	—
Quilty	100	40	‡‡‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cahirciveen (Val. Obs.)	98	41	‡‡‡	—	—	6, 8, 9	20	80	52	16	0	280	18	9	10	32	9	11	0
Weaver Pt.	160	30	‡	6	2	6, 8, 9	24	85	55	2	0	—	18	6	20	27	6	19	5
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	6, 8, 9	19	5 to 9	49	82	18	0	0	270	21	9	4	34	9	3	35

† More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting.
§ Direction from the Robinson Anemometer at Falmouth Observatory
* Above tops of trees.
** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

SECOND WEEK of 1919—January 5th to January 11th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	46	26	78·7	74·9	76·9	+ 0·8	1	− 4	24	− 13	5	0	0·82	21	− 8	0·2	−0·7	2	986
Eastern.																			
1. SCOTLAND, EAST ...	46	18	78·1	73·9	76·1	+ 0·6	0	− 4	32	− 12	5	+ 1	0·58	15	+ 2	1·0	−0·1	15	986
2. ENGLAND, N.E.	48	30	78·8	74·7	76·8	+ 0·6	1	− 5	26	− 11	5	+ 1	0·39	10	0	1·2	+0·1	17	988
3. ENGLAND, EAST ...	49	29	79·6	75·1	77·4	+ 1·5	5	− 2	24	− 17	5	+ 1	0·64	16	+ 6	1·2	−0·4	16	992
4. MIDLAND COUNTIES ...	48	25	78·7	74·3	76·6	+ 0·8	1	− 7	28	− 15	5	+ 1	0·41	10	− 1	1·6	+0·3	21	989
5. ENGLAND, S.E.	50	29	80·4	76·1	78·3	+ 1·5	10	− 1	18	− 16	7	+ 3	1·37	35	+ 23	1·2	−0·4	15	991
Western.																			
6. SCOTLAND, WEST ...	46	30	79·1	75·2	77·2	+ 0·3	3	− 4	23	− 8	6	+ 2	0·91	23	0	1·0	−0·1	14	986
7. ENGLAND, N.W.	47	26	78·8	74·9	76·9	0·0	1	− 8	24	− 6	6	+ 2	0·91	23	+ 8	1·2	−0·1	16	985
8. ENGLAND, S.W.	51	26	80·2	75·5	77·9	+ 0·2	8	− 6	22	− 2	7	+ 3	1·40	36	+ 17	1·9	+0·3	23	987
9. IRELAND, NORTH ...	47	26	79·1	74·6	76·9	− 0·5	3	− 8	26	− 1	6	+ 1	0·94	24	+ 4	1·2	0·0	16	983
10. IRELAND, SOUTH ...	50	26	79·9	74·3	77·2	− 1·0	7	− 10	30	+ 9	6	+ 2	1·53	39	+ 16	1·7	+0·1	22	984
11. ENGLISH CHANNEL ...	51	35	81·7	77·9	79·9	+ 0·3	21	− 1	3	− 7	6	+ 1	1·25	32	+ 14	2·3	+0·4	28	990

THE SEASON (Winter).—Aggregates, &c., for the Period of 6 Weeks, December 1st, 1918, to January 11th, 1919.

0. SCOTLAND, NORTH ...	59	22	79·6	75·0	77·4	+ 0·7	66	+ 20	156	− 34	32	0	7·08	180	− 18	0·7	+0·1	11	997
Eastern.																			
1. SCOTLAND, EAST ...	59	16	79·2	74·2	76·8	+ 0·8	66	+ 25	194	− 41	29	+ 4	4·27	108	+ 8	1·1	+0·1	17	998
2. ENGLAND, N.E.	60	25	80·8	75·9	78·5	+ 1·7	95	+ 44	117	− 72	31	+ 7	4·53	115	+ 40	1·2	−0·1	16	1002
3. ENGLAND, EAST ...	59	27	81·7	76·5	79·2	+ 2·4	122	+ 61	102	−101	34	+ 9	4·32	110	+ 35	1·2	−0·2	15	1006
4. MIDLAND COUNTIES ...	59	25	81·6	76·3	79·1	+ 2·4	123	+ 58	108	−108	34	+ 9	4·90	125	+ 37	1·2	0·0	16	1004
5. ENGLAND, S.E.	59	22	82·5	77·7	80·2	+ 2·4	178	+ 85	64	− 88	36	+12	5·05	129	+ 31	1·1	−0·4	15	1006
Western.																			
6. SCOTLAND, WEST ...	57	24	80·5	76·2	78·4	+ 0·9	92	+ 26	112	− 40	37	+ 9	3·52	216	+ 36	1·0	0·0	14	1001
7. ENGLAND, N.W.	58	24	81·5	77·0	79·3	+ 1·7	125	+ 53	90	− 60	35	+ 9	7·41	188	+ 69	1·0	0·0	13	1002
8. ENGLAND, S.W.	59	25	82·5	78·0	80·3	+ 1·7	190	+ 76	48	− 60	37	+ 9	8·70	222	+ 64	1·4	0·0	18	1006
9. IRELAND, NORTH ...	60	26	81·7	76·9	79·4	+ 1·4	141	+ 59	86	− 48	37	+ 6	6·68	168	+ 34	1·4	+0·2	20	999
10. IRELAND, SOUTH ...	60	26	82·6	77·4	80·1	+ 1·2	193	+ 65	64	− 38	35	+ 6	8·02	204	+ 48	1·8	+0·3	23	1003
11. ENGLISH CHANNEL ...	57	33	83·7	80·3	82·1	+ 1·5	269	+ 85	3	− 33	36	+ 5	6·85	175	+ 38	1·5	−0·3	18	1009

THE YEAR 1919.—Aggregates, &c., for the Period of 2 Weeks, December 29th, 1918, to January 11th, 1919.

0. SCOTLAND, NORTH ...	46	22	78·0	73·6	75·9	− 0·4	1	− 10	72	0	10	0	1·81	46	− 12	0·4	−0·3	6	990
Eastern.																			
1. SCOTLAND, EAST ...	46	16	77·4	73·0	75·3	− 0·3	0	− 10	84	− 2	11	+ 3	2·21	56	+ 27	0·8	−0·3	11	990
2. ENGLAND, N.E.	53	27	79·0	74·7	77·0	+ 0·7	4	− 9	52	− 20	12	+ 4	2·06	53	+ 30	1·1	0·0	15	991
3. ENGLAND, EAST ...	55	29	80·0	75·4	77·8	+ 1·7	14	− 2	46	− 34	11	+ 3	1·64	41	+ 18	1·3	−0·2	17	995
4. MIDLAND COUNTIES ...	55	25	79·4	74·9	77·2	+ 1·2	8	− 9	50	− 33	11	+ 3	1·87	47	+ 21	1·4	+0·2	19	993
5. ENGLAND, S.E.	55	28	80·9	76·4	78·7	+ 1·7	31	+ 7	27	− 36	13	+ 5	2·77	71	+ 45	1·1	−0·4	14	995
Western.																			
6. SCOTLAND, WEST ...	51	26	78·8	74·5	76·7	− 0·3	3	− 13	52	− 8	12	+ 3	2·73	69	+ 18	1·1	+0·1	15	990
7. ENGLAND, N.W.	54	26	79·4	75·3	77·4	+ 0·4	8	− 11	45	− 13	13	+ 5	2·15	54	+ 20	1·2	+0·1	16	990
8. ENGLAND, S.W.	56	26	80·6	76·2	78·4	+ 0·4	26	− 5	31	− 15	13	+ 4	3·10	79	+ 37	1·6	+0·1	21	993
9. IRELAND, NORTH ...	52	26	79·5	75·0	77·3	− 0·3	10	− 14	48	− 4	13	+3	2·14	54	+ 13	1·5	+0·2	20	989
10. IRELAND, SOUTH ...	54	26	80·4	75·4	78·0	− 0·4	25	− 12	41	+ 1	12	+ 3	2·46	63	+ 15	2·1	+0·6	27	991
11. ENGLISH CHANNEL ...	55	33	82·2	78·7	80·5	+ 0·6	53	+ 4	3	− 16	12	+ 2	2·91	74	+ 36	1·6	−0·3	19	996
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: COL. H. G. LYONS, R.E., F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: January 17th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) No. 3.

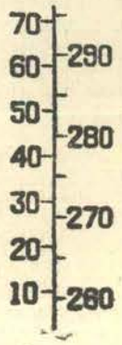
THE THIRD WEEK OF 1919.

SUNDAY, JANUARY 12TH, TO SATURDAY, JANUARY 18TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

Barometric pressure was high throughout the week at Spitzbergen and also in the neighbourhood of the Azores. Early in the week the lowest pressures were near Iceland; later, off the Norwegian coast. The wind current was mostly from between S.E. and S.W., but on Friday there was a very general veering to W. or N.W. Gales were experienced in the extreme N. and N.W. on the earlier days. The mean temperature differed but little from the normal: in Scotland W. it was just equal to it, in Scotland N. and E. and in Ireland there was a deficit, while over England generally there was an excess. The beginning and end of the period were generally cold, the warmest days being as a rule the 14th and 15th; maxima as high as 285 a. or 286 a. were registered in many parts of England. On the 12th or 13th over the northern and west midland districts of England very low maxima were reported, 273 a. in Yorkshire and 275 a. at Tenbury, Worcestershire. The lowest minima, which occurred either on the 13th or 18th, varied between 264 a. in Scotland E. (Balmoral) and 270 a. in several other districts, and 275 a. in the English Channel. Ground frosts were general, the lowest readings being 263 a. at Balmoral, 264 a. at Aberdeen, Durham and Rounton, 266 a. over inland Southern England and 267 a. in Central Ireland. Rainfall was again heavy over Ireland and England, moderate in Scotland; in the Midland Counties the total fall was 125 per cent. in excess of the normal and in the Channel Islands actually more than 170 per cent.; there were, however, few very heavy falls, the station with the highest figures being Beddgelert, 20mm. on the 12th and 26mm. on the 14th. Sleet fell on some days in the north, while thunderstorms and hail showers were reported in many parts of England and Ireland on the 16th and 17th. The Observer at Brooklyn, Guernsey, reports a whirlwind and waterspout at 9 a.m. on the 16th. During the last three days of the week some very large sunshine records were obtained, more than six hours at several places on the 17th, seven hours at Clacton and 7·5 hours at Weymouth, both on the 18th; the total for the three days, 16th–18th, at Phœnix Park, Dublin, being 17¼ hours. A solar halo was seen at Glasgow on the 13th and lunar halos frequently during the week. Aurora was witnessed in Scotland on the 16th and 18th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	18	5·7	17	4·9	—	—	16	3·3	14	4·5	9	5·3	19	4·0	17	5·3
North	8	3·2	1	0·8	—	—	1	0·7	10	3·6	11	5·3	2	0·6	8	2·8
West	18	2·3	20	4·5	—	—	20	2·9	18	6·0	18	6·7	21	5·3	14	6·0
East	7	6·7	2	1·3	—	—	1	1·3	4	1·0	2	1·6	4	1·1	11	2·1
Calm	2	—	4	—	—	—	7	—	3	—	0	—	2	—	2	—

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Unusual	Moderate	Moderate	Moderate	Moderate	Deficient	Unusual
	Rainfall ...	Moderate	Moderate	Heavy	Heavy	Heavy	Heavy	Moderate	Heavy	Heavy	Heavy	Heavy	Heavy
	Sunshine ...	Very abundant	Very abundant	Abundant	Moderate	Abundant	Abundant	Abundant	Very abundant	Abundant	Abundant	Moderate	Abundant

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

WINTER. 7 weeks from Dec. 1st, 1918.	Warmth ...	2, 3, 2	2, 4, 1	2, 5, 0	4, 3, 0	2, 5, 0	5, 2, 0	2, 5, 0	2, 5, 0	3, 4, 0	3, 4, 0	2, 3, 2	4, 3, 0
	Rainfall ...	1, 6, 0	2, 4, 1	4, 2, 1	6, 1, 0	4, 3, 0	3, 3, 1	3, 4, 0	5, 2, 0	6, 1, 0	5, 2, 0	5, 2, 0	5, 1, 1
	Sunshine ...	3, 2, 2	4, 1, 2	2, 3, 2	0, 5, 2	3, 2, 2	1, 3, 3	2, 4, 1	2, 4, 1	1, 5, 1	4, 2, 1	1, 5, 1	1, 3, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(21394—19.) Wt. 199—789. 625. 1/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average	Earth 4 ft Mean.	Earth 4 ft Deviation from Average
	Ft.	°F.		°F		°F.	°F.	°F.	°F		in	mm.		hr.	hr.	°/c.		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																						
a, Islands .. a Lerwick ..	54	42	13, 14	32	17th	40·3	35·9	38·2	- 1·5	5	0·63	16	- 9									
a Houton Bay	—	43	13th	34	13th	39·9	35·9	38·0	—	—	—	—	—									
a Stornoway	51	47	13th	33	13th	43·7	36·9	40·4	+ 0·4	7	1·06	27	- 4	Deerness	1·9	+ 1·0	28	•	•	•	•	•
a Castlebay, Barra Isd.	37	48	18th	38	12, 17, 18	46·0	40·1	43·2	—	7	0·97	25	—	Stornoway	1·8	+ 1·0	26	•	•	•	•	•
														Castlebay	1·4	—	20	•	•	•	•	•
b, Mainland. a Wick	81	45	14, 15	33	13th	42·4	35·4	39·0	+ 0·4	5	0·62	16	+ 2									
a Strathpeffer	125	43	13th	24	13th	40 6	28·4	34·7	- 3·3	3	0·48	12	- 7									
p Glencarron	600	46	13, 14	28	13, 18	42·0	31·4	36·9	- 0·9	5	1·75	44	- 16									
a Fort Augustus	68	45	13, 14	24	13th	42·4	30·0	36·5	- 1·9	3	0·80	20	- 12									
p Fort William	171	46	13th	28	18th	42 4	33·7	38·2	- 1·4	5	2·25	57	0									
1. SCOTLAND, E.																						
a Nairn	82	44	13th	26	13th	41·3	29·6	35·7	- 2·4	3	0·09	2	- 10	Nairn	2·4	—	34	•	•	•	•	•
p Gordon Castle	101	47	14th	28	13th	42·9	32·0	37·7	- 1·3	3	0·33	8	- 4	Gordon Castle	2·7	—	38	•	•	•	•	•
a Aberdeen	46	43	13–15	27	13th	41·1	32·3	36·9	- 1·8	3	0·37	9	- 4	Aberdeen	2·2	+ 0·5	31	4	16	•	•	•
a Balmoral	930	40	14, 15	17	13th	38·4	27·0	32·9	- 2·3	4	0·50	13	- 3	Balmoral	•	•	•	7	14	•	•	•
p Crieff	432	44	15th	27	13th	40·7	30·3	35 7	- 2·1	4	1·25	32	+ 8	Crathes	3·0	+ 1·1	42	6	15	34·2	-1·0	37·2	-0·9
a Dundee	244	42	18th	25	13th	39·4	29·1	34·5	- 2·5	3	0·52	13	+ 1	Dundee	2·2	—	30	7	20	34·0	•	•	•
a Leith	30	49	14th	32	13–15	44·3	34·1	39·4	- 0·6	4	0·17	4	- 6	Leith	—	—	—	4	27	•	•	•	•
p Edinburgh	441	47	14th	33	18th	42·3	35·4	39·0	+ 0·2	4	0 21	5	- 5	Edinburgh	2 7	+ 1·0	36	3	25	•	•	•	•
a West Linton	769	45	15th	22	13th	41·3	28·3	35·1	0·0	4	0·34	9	—	West Linton	1·6	—	22	7	18	•	•	•	•
p Marchmont	498	46	15th	28	13th	42 4	30·9	36·9	- 0·4	3	0·44	11	- 2	Marchmont	2·8	+ 1·3	38	•	•	•	•	•	•
6. a, SCOTLAND, W.																						
a Ford (Argyll)	149	47	13, 14	27	18th	44·6	35·1	40·0	—	7	1·88	48	—	Ford (Argyll)	•	•	•	3	17	38·1	•	40·8	•
p Glasgow Observatory	180	46	14th	32	18th	42·4	36·9	39·8	+ 0·5	4	0 75	19	0	Glasgow	1·0	+ 0·3	14	3	21	•	•	•	•
p Rothesay	200	47	14th	33	18th	43·4	36·1	39·9	- 0·3	7	1·25	32	+ 6	Rothesay	2·0	—	27	4	26	39·0	•	42 0	-0·4
a Kilmarnock	90	48	13th	27	18th	44·6	35·4	40·2	+ 2·0	6	1·00	25	+ 4	Kilmarnock	1·8	—	24	•	•	38·5	•	41·7	•
a Colmonell	170	47	13th	32	15th	44·1	35·9	40·2	+ 0·8	6	1·05	27	+ 2	Colmonell	•	•	•	1	28	•	•	•	•
p Cally, Gatehouse	120	47	15th	28	18th	43·1	34·1	38·8	- 0·2	6	1·30	33	+ 7	Dumfries	2·4	—	32	6	29	38·9	+1·4	41·7	+0·7
p Dumfries	160	47	15th	27	13th	43·1	33·7	38·6	0·0	5	0·75	19	+ 2	Eskdalemuir	2·2	—	29	3	19	•	•	•	•
a Eskdalemuir	794	45	15th	24	14th	41·1	30·3	35·9	—	6	1·20	31	—										
b, I. OF MAN p Douglas	277	49	14th	35	12th	45·3	38·0	41·8	+ 0·3	5	0·91	23	+ 3	Douglas	3·0	+ 1·4	39	0	31	•	•	•	•
2. ENGLAND, N.E.																						
a North .. a Alnwick Castle	210	49	15th	28	13, 14	42·9	31·3	37·3	- 1·0	4	1·04	27	+ 17									
a Tynemouth	71	49	15th	32	12–14	43·3	34·0	38·8	- 0·1	3	0·67	17	+ 10	Cockle Park	2·7	+ 1·0	36	6	21	35·1	-1·3	39·6	-0·2
p Durham	336	47	15th	25	13th	41·3	30·1	35·9	- 1·5	5	0·40	10	+ 3	Durham	3·4	+ 1·9	45	6	15	•	•	•	•
p Rounton	249	48	15th	23	13th	42·0	30·7	36·6	- 0·7	4	0·31	8	+ 1	Rounton	•	•	•	6	15	36·7	•	•	•
a West Witton	605	47	14, 15	25	13, 14	42 0	31·4	36·9	—	4	0·75	19	—	West Witton	•	•	•	5	20	35·9	•	39·6	•
p Scarborough	100	49	15, 16	28	13th	43·9	35·6	39·9	+ 0·9	4	0·98	25	+ 16	Scarborough†	2·5	+ 1·0	32	•	•	•	•	39 5	•
p York	56	51	15th	25	13th	42·1	32·7	37·6	- 0·6	4	0·30	8	0	York	1·3	+ 0·3	17	—	—	38·5	0·0	42 2	+0·1
b, South .. a Spurn Head	26	48	15th	29	13th	42·7	34·4	38·7	0·0	4	1·08	27	+ 21	Spurn Head	0·6	—	8	•	•	•	•	•	•
a Lincoln	58	51	14, 15	28	13, 14	45·0	33·7	39·6	+ 2·2	4	0·69	18	+ 10	Lincoln	•	•	•	4	28	37·8	+1·1	42·4	+0 8
a Fulbeck	180	51	14th	27	13, 14	44 6	33·0	39·0	+ 1·6	6	1·10	28	+ 20	Rauceby	—	—	—	•	•	—	—	•	•
														Skegness	1·8	0·0	23	•	•	•	•	•	•
3. ENGLAND, E.																						
p Cromer	186	51	14, 15	30	12th	45 3	35·1	40·4	+ 2·6	6	0·65	16	+ 9	Cromer	1·4	- 0·1	18	•	•	•	•	•	•
a Little Massingham	280	51	15th	29	12, 13, 18	43·7	32·7	38·4	+ 1·5	5	1·05	27	+ 17	Lit. Massingham	1·5	+ 0·2	19	•	•	•	•	•	•
a Yarmouth	13	52	15th	33	18th	46·1	36·1	41·3	+ 3 6	6	0·71	18	+ 10	Yarmouth	—	—	—	0	31	41·7	+3·7	45·4	+2·0
a Norwich	93	53	15th	31	12th	45·4	35·0	40·4	+ 3·1	6	0·81	21	+ 12	Norwich	1·8	—	23	3	27	38·7	•	•	•
a Geldeston	37	54	15th	29	12th	47·1	33·4	40·5	+ 2·5	6	0·78	19	+ 11	Geldeston	1·5	0·0	19	•	•	•	•	•	•
p Cambridge	41	54	15th	27	13th	45·9	34·0	40·2	+ 2·6	4	0·61	16	+ 9	Cambridge	1·7	+ 0·2	21	4	23	40·0	+1·6	43·9	+0·8
a Clacton-on-Sea	54	48	14, 15	29	13, 14	45·0	35·0	40·2	+ 2·4	5	0·40	10	+ 4	Clacton	2·1	+ 0·5	26	3	28	41·6	+1·7	45·4	+0·9
a Rothamsted	424	52	15th	26	13th	46·1	33·6	40·1	+ 2·9	5	0·65	17	+ 7	Rothamsted	1·7	+ 0·2	21	4	24	39·5	•	•	•
p Tottenham	51	54	15th	29	18th	46·9	36 3	41·8	—	3	0·50	13	—	Tottenham	1·0	—	12	4	27	•	•	44·8	+0 3
4. MIDLAND COUNTIES.																						
a North .. a Harrogate	479	48	15th	25	13th	42·7	31·7	37·4	+ 0·5	4	0·59	15	+ 3	Harrogate	2·2	+ 0·7	29	5	19	37·4	-0·8	40·3	-0·2
p Sheffield	429	51	15th	29	13th	44·0	34·7	39·5	—	5	0·95	24	—	Sheffield	1·5	+ 0·2	19	2	25	38·1	+0·4	42·3	+0·2
p Buxton	987	—	—	—	—	—	—	—	—	—	—	—	—	Buxton	—	—	—	—	—	—	—	—	—
b, East .. a Bawtry	65	56	15th	26	13th	44·9	32 7	39·0	+ 1·4	5	0·64	16	+ 8	Worksop	1·1	0·0	14	6	20	37·9	•	41·1	•
a Nottingham	82	51	14, 15	29	13, 14	44·9	34·1	39·7	+ 1·9	6	1·00	25	+ 16	Nottingham	0·5	- 0·6	6	4	27	37·3	+0·4	40·3	-0 1
p Birmingham, Edgbsn.	535	51	14th	31	13th	43 9	34·7	39·5	+ 1·5	6	0·95	24	+ 14	Birmingham	1·0	- 0·1	13	3	23	40·4	+0 8	44·9	+0·3
a Raunds	203	53	15th	27	13th	46·1	32·7	39·7	+ 2·9	5	0·59	15	+ 8	Raunds	1·9	—	24	6	22	40·1	•	45·6	•
p Oxford	208	52	14, 15	28	13th	46·3	34·9	40·8	+ 2·2	5	0·55	14	+ 5	Oxford	2·8	+ 1·2	35	4	20	•	•	•	•
														Malvern	2·6	—	33	5	25	38·7	—	42·5	•
c, West .. a Cheadle (N. Staffs.)	646	49	14th	25	13th	43·9	33·1	38·7	+ 2·0	5	1·30	33	+ 21	Cheadle	•	•	•	6	22	•	•	•	•
p Tenbury	313	52	14th	27	18th	44·9	34·6	40·0	+ 1·1	6	1·03	26	+ 18	Tenbury	•	•	•	4	22	39·7	•	•	•
p Ross-on-Wye	201	53	14th	28	18th	47·3	37·1	42·4	+ 4·0	5	0·68	17	+ 7	Ross-on-Wye	1·9	—	24	2	22	—	—	•	•
a Clifton	226	53	14, 15	30	18th	48·6	37·9	43·5	+ 3·8	6	1·41	36	+ 20	Clifton	3·1	—	38	2	27	•	•	•	•
5. ENGLAND, S.E.																						
a Marlborough	424	51	14, 15	26	18th	47·4	34·6	41·3	+ 3·7	6	0·95	24	+ 10	Worthing	2·7	+ 0 8	33	5	24	41·9	+2·3	46 1	+1·3
p Salisbury (Wilton)	180	52	14, 15	28	18th	48·9	35·0	42·2	+ 4·2	5	1·29	33	+ 17	Marlborough	2·2	+ 0·9	27	5	19	40·5	•	45·1	•
a Wisley, Surrey	150	54	15th	28	13th	47·9	34·3	41·4	+ 3·1	5	0·50	13	+ 3	Salisbury	•	•	•	4	23	41·0	•	•	•
a Tunbridge Wells	354	51	14, 15	29	18th	46·1	34·1	40·3	+ 2·5	4	1·09	28	+ 14	Wisley	2·2	+ 0·6	27	4	19	40·6	+1·7	44·6	+1·2
a Margate	51	52	14, 15	35	13th	46 9	38·1	42·7	+ 3·3	5	0·19	5	- 4	Tunbridge Wells	2·0	+ 0·4	25	5	18	42·2	+5·1	44·9	•
														Margate	1·5	0·0	19	2	27	42·4	+2·2	45·2	+1·4
a Dungeness	21	50	14, 15	31	18th	46·7	37·1	42·1	+ 2·7	4	0·79	20	+ 10	Folkestone	2·5	—	30	•	•	•	•	46·9	•
p St. Leonards	178	50	14, 15	35	17th	46·1	39·7	43·0	+ 3·3	5	0·65	16	+ 4	St. Leonards	2·1	+ 0·3	25	4	29	41·6	•	45·8	•
p Southampton	64	52	15th	31	18th	48·1	37·7	43·1	+ 2·9	5	0·84	21	+ 7	Southampton	2·5	+ 0·9	30	5	19	•	•	•	•
a Ventnor	59	52	15th	36	18th	49 1	41·4	45·4	+ 3·6	5	0·84	21	+ 7	Ventnor	2·5	+ 0·7	30	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	53	15th	30	12th	47·0	35·4	41·4	+ 2·4	5	0·52	13	+ 3	Richmond	1·5	+ 0·2	19	3	23	40·3	+1·4	44·6	+0 5
a Westminster	27	55	15th	30	13th	48·5	35·5	42 3	+ 2·6	4	0·47	12	+ 3	Westminster	1·1	+ 0·5	14	4	25	•	•	•	•
ag Greenwich	149	54	15th	30	13, 18	47·0	34·6	41·1	+ 2·4	5	0·49	12	+ 3	Greenwich	1·7	+ 0·4	21	4	21	•	•	•	•
a Hampstead	450	—	—	—	—	—	—	—	—	—	—	—	—	Hampstead	—	—	—	—	—	—	—	—	—
ag Camden Square	110	54	15th	30	18th	47·6	36·0	42·0	+ 3·1	4	0·50	13	+ 3	Camden Square	0·8	- 0·4	10	4	24	•	•	•	•
7. a, ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	47	14, 15	30	18th	43·1	34·6	39·0	+ 0·7	5	0·60	15	- 1	Aspatria	2·2	+ 0·7	29	3	24	38·6	-0·7	42·1	-1 5
p Newton Rigg	559	48	15th	26	13th	41·9	30·6	36·5	- 0·7	5	0·88	22	+ 5	Newton Rigg	2·2	+ 0·9	29	7	19	37·7	-0·5	40·7	-0 2
p Stonyhurst	375	47	14th	30	13th	42·7	35·0	39·0	+ 1·0	6	1·08	28	+ 5	Stonyhurst	1·4	+ 0·3	18	4	25	•	•	•	•
p Blackpool	68	51	15th	32	13, 14	45 6	36·9	41·4	+ 2·5	5	1·17	30	+ 16	Blackpool	2·5	+ 0·9	32	4	26	40·0	•	44·3	•
a Southport	37	50	15th	28	13th	44·9	36·0	40·6	+ 1·7	5	1·14	29	+ 16	Southport	2·4	+ 0·8	31	2	28	37·7	+0·6	40·6	-0·3
														Hoylake	3·1	+ 1·4	39	•	•	•	•	•	•
a Liverpool (Bidston)	188	50	15th	31	13th	45·4	36·6	41·2	+ 1·6	5	1·10	28	+ 17	Liverpool	2·6	—	33	3	29	•	•	•	•
a Hawarden Bridge	22	47	16th	31	12th	43·7	35·3	39·7	- 0·4	5	0·69	18	+ 8	Manchester (City)	0·5	0·0	6	1	28	38·0	-0·1	42·5	-0·6
p Manchester (Whit. Pk.)	125	52	15th	28	13th	44·6	35·3	40·1	+ 0·8	6	1·03	26	+ 13	Whitworth Park	0·5	- 0·1	6	•	•	•	•	•	•
b, NORTH WALES.																						
p Llandudno	16	54	14th	33	13, 18	48·1	38·6	43·5	+ 1·9	7	0·76	19	+ 5	Llandudno	2·5	+ 0·6	32	·	•	•	•	•	•
a Holyhead	15	49	13, 14	36	13, 14	46·6	40·3	43·6	+ 1·6	6	1·34	34	+ 19	Holynead	1·7	—	22	1	27	•	•	•	•
a Beddgelert	309	49	15th	32	14th	45 6	37·3	41·6	—	7	3·58	91	—	Aberdovey	—	—	—	•	•	•	•	•	•
a Aberdovey	32	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft Mean.	Earth 4 ft Deviation from average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		mm.	mm		hr.	hr	%		°F.	°F.	°F.	°F.	°F.
a. SOUTH WALES.																						
a Aberystwyth	59	50	13-15	34	18th	47·1	39·4	43·4	—	6	1·06	27	—	Aberystwyth ..	2·3	+ 0·5	29	*	*	*	*	*
a Rhayader	757	50	14, 15	30	18th	45·3	35·4	40·6	—	7	1·16	29	—	Rhayader ..	5·1	—	26	2	21	*	*	*
a St. Ann's Head ..	149	51	13, 14	39	18th	48·4	42·3	45·5	+ 2·7	6	1·30	33	+ 17	St. Ann's Head	2·7	+ 1·1	33	*	*	*	*	*
p Cardiff	202	51	14th	33	18th	46·1	37·0	41·7	+ 2·7	6	2·11	54	+ 36	Cardiff	2·7	—	33	4	21	41·1	+1·9	45·0	+1·1
b. ENGLAND, S.W.																						
a Bath	66	54	14, 15	29	18th	49·9	34·9	42·7	+ 3·2	5	0·83	21	+ 9	Bath	*	*	*	*	*	41·4	+1·5	45·4	+1·1
a Shaftesbury	722	50	14th	31	18th	45·9	36·4	41·3	+ 3·5	5	0·73	19	+ 6	Shaftesbury ..	*	*	*	*	*	40·3	*	43·9	*
a Arlington	613	51	14th	31	18th	46·7	37·7	42·4	+ 3·1	6	1·84	47	+ 23										
a Hartland Quay ..	100	—	—	—	—	—	—	—	—	—	—	—	—										
a Newquay	190	53	14, 15	31	18th	50·1	39·6	45·1	+ 1·6	6	1·79	45	+ 30	Newquay ..	1·8	+0·1	22	2	23	45·0	*	47·7	*
a Cullompton	202	53	14th	27	18th	49·6	36·7	43·4	+ 3·5	6	0·96	24	+ 8	Cullompton ..	3·0	+ 1·5	36	5	19	42·1	*	*	*
a Portland Bill	19	51	14th	39	18th	48·6	44·3	46·5	+ 4·3	5	1·10	28	+ 17	Weymouth ..	3·7	—	45	*	*	*	*	*	*
p Plymouth	116	52	14, 15	32	18th	49·1	40·1	44·8	+ 2·4	6	1·63	41	+ 25	Plymouth ..	2·6	+ 1·0	31	2	24	43·2	+1·2	47·0	*
a Falmouth	187	52	13, 14	34	18th	49·6	40·4	45·2	+ 1·7	7	1·63	42	+ 21	Falmouth ..	2·4	+ 0·6	29	0	32	44·4	*	46·8	*
9. IRELAND, N.																						
a West .. *a* Malin Head	208	45	13, 18	37	12, 13, 15	43·9	38·3	41·2	- 0·1	5	0·48	12	- 2	Malin Head ..	2·1	—	28	*	*	*	*	*	*
a Blacksod Point ..	327	50	13th	35	18th	46·3	36·7	41·7	- 1·4	7	1·02	26	0	Markree Castle	1·6	+ 0·2	21	6	20	39·6	-1·3	44·4	-0·3
p Markree Castle ..	122	49	14th	24	18th	45·1	32·0	38·8	- 1·3	7	2·13	54	+ 34										
b, East .. *p* Armagh	196	52	14th	28	12th	45·0	33·9	39·7	- 0·2	6	0·55	14	+ 1	Armagh	2·2	+ 0·8	29	2	23	39·7	-0·4	43·6	+0·2
a Donaghadee	101	48	13th	31	12th	44·6	35·6	40·3	- 0·7	7	0·71	18	+ 5										
10. IRELAND, S.																						
p Dublin, City	47	53	14th	32	18th	45·7	37·7	41·9	- 0·5	6	0·45	11	- 2	Trinity Coll. ..	*	*	*	—	—	—	—	—	—
a Birr Castle	175	51	13th	26	18th	44·9	33·6	39·5	- 0·9	5	0·87	22	+ 7	Phœnix Park ..	2·7	+ 0·9	34	1	20	*	*	*	*
a Kilkenny	212	52	13th	24	18th	45·6	31·3	38·7	- 1·8	6	1·14	29	+ 12	Dublin City ..	*	*	*	1	38	*	*	*	*
a Waterford	120	50	13th	27	13th	45·7	33·4	39·8	- 2·4	5	1·69	43	+ 24	Birr Castle ..	1·6	0·0	20	5	20	*	*	*	*
p Seskin, Carrick-on-Suir	541	50	14th	31	18th	44·9	36·0	40·6	—	7	2·08	53	—	Seskin	2·0	—	25	4	21	*	*	*	*
a Cahir	199	51	13th	23	18th	45·1	31·1	38·4	- 2·8	?6	1·50	38											
a Foynes	50	53	13th	26	18th	47·1	35·9	41·7	- 0·7	7	1·18	30	+ 10										
a Cahirciveen (Val. Obs.)	30	53	13th	35	13, 18	48·3	38·9	43·8	- 1·1	7	1·79	45	+ 16	Cahirciveen ..	1·5	0·0	19	1	30	*	*	*	*
a Killarney	174	53	13th	34	13th	48·2	38·4	43·5	+ 0·3	7	1·87	47	+ 16	Ballinacurra ..	1·6	- 0·2	20	*	*	*	*	*	*
a Roche's Point	32	49	13th	32	18th	47·3	37·3	42·5	- 1·5	6	1·62	41	+ 19										
11. ENGLISH CHANNEL.																						
a Scilly, St. Mary's ..	131	52	13, 14	39	18th	50·0	43·4	46·8	+ 1·1	7	0·83	21	+ 6	Scilly	2·5	+ 0·7	30	*	*	*	*	*	*
a Jersey, St. Aubins ..	25	53	15th	35	18th	50·6	42·3	46·6	+ 3·9	6	1·33	46	+ 32	St. Heliers ..	3·0	+ 0·9	35	*	*	*	*	*	*
a Guernsey (Villa Carey)	180	56	15th	37	18th	50·7	42·9	47·0	+ 3·7	7	1·88	48	+ 33	Guernsey† ..	2·4	+ 0·5	29	0	32	45·3	+1·8	48·1	+1·1

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn. *

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, January 18th, 1919

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s	day.	hr.	m/s	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	13, 14	7	11, 13 to 15	29	53	69	10	0	135	19	13	24	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	9	76	83	0	135	7	14	3	16	14	2	40
Aberdeen	153	105	52	—	—	—	—	40	73	55	0	304	10	17	14	18	17	6	30
Edinburgh	485	39	31	—	—	13, 14	8	72	62	26	0	180	17	14	4	24	14	3	55
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	14, 16, 17	5	53	39	71	0	290	15	16	23	23	16	22	40
Paisley	188	81	15	—	—	—	—	24	86	58	0	203	9	14	4	19	16	20	25
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	18	73	77	0	191	9	14	4	15	14	3	30
South Shields	72	61	12	—	—	—	—	49	93	26	0	293	11	17	4	20	16	13	10
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	14	9	61	98	0	0	—	13	14	11	16	14	11	40
Shoeburyness	103	90	‡	—	—	14, 16	14	79	46	19	10	214	13	16	10	20	16	10	45
4. MIDLAND COUNTIES																			
Benson	270	84	‡	—	—	—	—	49	70	49	0	180	10	14	8	16	15	17	25
5. ENGLAND, S.E.																			
Warlingham	642	33	‡	—	—	—	—	58	96	14	0	—	10	14	22	17	16	9	30
Brighton	261	53	6	—	—	—	—	57	82	24	6	—	10	14	22	24	16	9	45
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	14 to 16	23	90	49	6	0	{190 / 200	12 / 12	14 / 15	13 / 18	17	16	12	10
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	11	81	76	0	214	7	16	13	16	16	13	0
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fleetwood (Cup Anr.) ..	109	44	—	—	—	14, 16, 17	22	56	62	10	18	281	13	16	19	—	—	—	—
Southport	80	62	48	—	—	14 to 17	35	65	64	4	0	281	15	16	22	24	16	17	40
Holyhead	60	40	‡	—	—	13, 14, 16, 17	39	62	59	8	0	270	14	16	17	19	14	2	20
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	14, 16	4	13 to 16	50	38	35	26	15	225	18	16	3	24	16	2	35
Plymouth	185	88	2	—	—	14 to 16	16	47	57	48	0	—	14	14	15	18	14	14	50
Lyme Regis	556	61	‡	—	—	16	2	55	61	50	0	—	13	16	5	19	16	12	45
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	13, 16, 17	34	57	63	14	0	236	16	16	12	—	—	—	—
Quilty	100	40	‡	—	—	13, 16	8	80	56	15	9	—	13	16	5	21	16	5	35
Cahirciveen (Val. Obs.)	98	41	‡	—	—	13 to 16	21	69	48	25	5	175	14	13	14	26	16	12	20
Weaver Pt.	160	30	‡	—	—	13, 15	14	44	70	10	30	—	14	13	23	21	15	23	20
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	12, 13, 15 to 17	41	82	26	19	0	304	15	16	20	21	16	11	30

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.] * Above tops of trees.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

THIRD WEEK of 1919—January 12th to January 18th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Temperature of the Air. At any "D.-V." Station. Lowest	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Accumulated Number of Day-Degrees. Deviation from Normal.	Accumulated Number of Day-Degrees. Below 42°	Accumulated Number of Day-Degrees. Deviation from Normal.	Rainfall. Number of Rain-Days.	Rainfall. Deviation from Normal.	Rainfall. Total Fall.	Rainfall. Deviation from Normal.	Sunshine. Daily Mean.	Sunshine. Deviation from Normal.	Sunshine. Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	47	24	78·6	73·8	76·2	-- 0·6	0	— 7	29	— 1	5	0	0·97	25	— 9	1·9	+1·1	26	1001
Eastern.																			
1. SCOTLAND, EAST ...	49	17	78·3	72·2	75·4	— 0·9	0	— 6	40	+ 3	4	0	0·44	11	— 4	2·6	+1·1	35	1002
2. ENGLAND, N.E.	51	23	79·2	73·4	76·4	— 0·1	3	— 4	35	+ 1	4	+ 1	0·73	19	+ 11	2·3	+0·9	30	1005
3. ENGLAND, EAST ...	54	26	80·6	74·4	77·7	+ 1·5	10	+ 4	30	— 8	5	+ 1	0·68	17	+ 8	1·6	+0·1	20	1009
4. MIDLAND COUNTIES ...	56	25	80·4	74·3	77·5	+ 1·2	10	+ 2	30	— 8	5	+ 1	0·87	22	+ 12	1·8	+0·4	25	1008
5. ENGLAND, S.E.	54	26	81·6	75·6	78·7	+ 1·6	24	+ 14	15	— 15	5	+ 2	0·77	19	+ 7	2·2	+0·6	26	1010
Western.																			
6. SCOTLAND, WEST ...	49	27	79·6	75·1	77·4	0·0	5	— 5	24	+ 1	6	+ 1	1·11	28	+ 2	2·0	+0·8	26	1004
7. ENGLAND, N.W.	54	26	80·0	75·2	77·7	+ 0·5	7	— 1	24	— 4	6	+ 2	0·96	24	+ 8	2·3	+1·0	30	1006
8. ENGLAND, S.W.	54	27	81·8	76·6	79·3	+ 1·3	25	+ 10	10	— 13	6	+ 2	1·33	34	+ 16	2·4	+0·8	30	1009
9. IRELAND, NORTH ...	52	24	80·2	74·7	77·6	— 0·3	8	— 6	28	+ 6	6	+ 1	0·96	24	+ 6	1·9	+0·5	25	1003
10. IRELAND, SOUTH ...	53	23	81·0	74·8	78·1	— 0·7	12	— 9	28	+ 9	6	+ 1	1·35	34	+ 14	1·9	+0·2	23	1007
11. ENGLISH CHANNEL ...	56	35	83·2	79·1	81·2	+ 1·4	34	+ 10	0	— 8	7	+ 2	1·51	38	+ 24	2·6	+0·6	31	1011

THE SEASON (Winter).—Aggregates, &c., for the Period of 7 Weeks, December 1st, 1918, to January 18th, 1919.

0. SCOTLAND, NORTH ...	59	22	79·4	74·8	77·2	+ 0·5	66	+ 13	185	— 35	37	0	8·05	205	— 27	0·9	+0·2	13	998
Eastern.																			
1. SCOTLAND, EAST ...	59	16	79·1	73·9	76·6	+ 0·5	66	+ 19	234	— 38	33	+ 4	4·71	119	+ 4	1·3	+0·2	20	999
2. ENGLAND, N.E.	60	23	80·6	75·5	78·2	+ 1·4	98	+ 40	152	— 71	35	+ 8	5·26	134	+ 51	1·3	+0·1	18	1002
3. ENGLAND, EAST ...	59	26	81·6	76·2	79·0	+ 2·3	132	+ 65	132	—109	39	+10	5·00	127	+ 43	1·2	−0·2	16	1006
4. MIDLAND COUNTIES ...	59	25	81·4	76·0	78·8	+ 2·2	133	+ 60	138	—116	39	+10	5·77	147	+ 49	1·3	+0·1	16	1005
5. ENGLAND, S.E.	59	22	82·4	77·4	80·0	+ 2·3	202	+ 99	79	—103	41	+14	5·82	148	+ 38	1·3	−0·2	16	1007
Western.																			
6. SCOTLAND, WEST ...	57	24	80·3	76·0	78·3	+ 0·9	97	+ 21	136	— 39	43	+10	9·80	248	+ 42	1·2	+0·2	16	1001
7. ENGLAND, N.W.	58	24	81·3	76·7	79·1	+ 1·6	132	+ 52	114	— 64	41	+11	8·49	215	+ 80	1·2	+0·1	16	1002
8. ENGLAND, S.W.	59	25	82·4	77·8	80·2	+ 1·7	215	+ 86	58	— 73	43	+11	10·03	256	+ 80	1·5	0·0	19	1006
9. IRELAND, NORTH ...	60	24	81·5	76·6	79·1	+ 1·1	149	+ 53	114	— 42	43	+ 7	7·64	192	+ 40	1·5	+0·3	21	999
10. IRELAND, SOUTH ...	60	23	82·4	77·1	79·8	+ 0·9	205	+ 56	92	— 29	41	+ 7	9·37	238	+ 62	1·8	+0·3	23	1003
11. ENGLISH CHANNEL ...	57	33	83·6	80·1	81·9	+ 1·5	303	+ 95	3	— 41	43	+ 7	8·36	213	+ 62	1·6	−0·2	20	1009

THE YEAR 1919.—Aggregates, &c., for the Period of 3 Weeks, December 29th, 1918, to January 18th, 1919.

0. SCOTLAND, NORTH ...	47	22	78·2	73·6	76·0	— 0·4	1	— 17	101	— 1	15	0	2·78	71	— 21	0·9	+0·2	13	994
Eastern.																			
1. SCOTLAND, EAST ...	49	16	77·7	72·7	75·3	— 0·5	0	— 16	124	+ 1	15	+ 3	2·65	67	+ 23	1·4	+0·2	20	994
2. ENGLAND, N.E.	53	23	79·1	74·3	76·8	+ 0·5	7	— 13	87	— 19	16	+ 5	2·79	72	+ 41	1·5	+0·3	20	996
3. ENGLAND, EAST ...	55	26	80·2	75·1	77·8	+ 1·7	24	+ 2	76	— 42	16	+ 4	2·32	58	+ 26	1·4	−0·1	18	1000
4. MIDLAND COUNTIES ...	56	25	79·7	74·7	77·3	+ 1·2	18	— 7	80	— 41	16	+ 4	2·74	69	+ 33	1·5	+0·2	20	998
5. ENGLAND, S.E.	55	26	81·1	76·1	78·7	+ 1·7	55	+ 21	42	— 51	18	+ 7	3·54	90	+ 52	1·4	−0·1	18	1000
Western.																			
6. SCOTLAND, WEST ...	51	26	79·0	74·7	76·9	— 0·2	8	— 18	76	— 7	18	+ 4	4·01	101	+ 24	1·4	+0·3	19	995
7. ENGLAND, N.W.	54	26	79·6	75·3	77·5	+ 0·4	15	— 12	69	— 17	19	+ 7	3·11	78	+ 28	1·6	+0·4	21	995
8. ENGLAND, S.W.	56	26	81·0	76·3	78·7	+ 0·7	51	+ 5	41	— 28	19	+ 6	4·43	113	+ 53	1·9	+0·3	24	998
9. IRELAND, NORTH ...	52	24	79·7	74·9	77·4	— 0·3	18	— 20	76	+ 2	19	+ 4	3·10	78	+ 19	1·6	+0·3	22	993
10. IRELAND, SOUTH ...	54	23	80·6	75·2	78·0	— 0·5	37	— 21	69	+ 10	18	+ 4	3·81	97	+ 29	2·0	+0·4	26	996
11. ENGLISH CHANNEL ...	56	33	82·5	78·8	80·7	+ 0·9	87	+ 14	3	— 24	19	+ 4	4·42	112	+ 60	1·9	0·0	23	1001
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	m.

METEOROLOGICAL OFFICE, LONDON: COL. H. G. LYONS, R.E., F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: January 24th, 1919.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) No. 4.

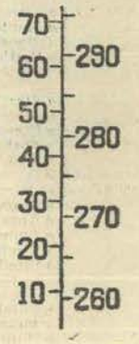
THE FOURTH WEEK OF 1919.

SUNDAY, JANUARY 19TH, TO SATURDAY, JANUARY 25TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d

I.—GENERAL SUMMARY. [First published in 1878.]

At the beginning of the period a depression over our Western Districts brought rain to most parts of the United Kingdom, accompanied by snow and sleet in Scotland. Under the influence of an anticyclone, which moved down from Northern Scandinavia to the southern part of the North Sea, the weather improved greatly about the middle of the week. On Friday the barometer stood at 1038 mb. (30·56 in.) over the eastern half of England. At the close of the week a depression from the Icelandic region began to make itself felt and rain again spread over the country from the westward. The mean temperature over Ireland and the North of Scotland was slightly above the normal, but in other Districts it was below it, the largest deficit being 2 a. over eastern, central and southern England. Maxima as high as 284 a. occurred in Ireland S. and England S.W. on the 19th and 20th, and 283 a. was touched in Scotland E. on the 24th, bnt at many stations over the eastern half of England the temperature failed to reach 278 a. all the week; at Durham it did not exceed 276 a; on the 19th over Scotland and north-eastern England it was only slightly above 273 a. all day. Minima below the freezing point were frequently recorded in all Districts, the lowest "in the screen" being about 264 a. at Balmoral and West Linton and 267 a. in the south of England; the lowest "on the grass," 262 a. at the two former stations and also at Durham and Rounton, and 264 a. at many other inland stations. Precipitation exceeded the normal except in England N.W. and Ireland N.; on the 20th 25mm. fell at Crathes and 20mm. at Alnwick Castle, while at Beddgelert on the 20th and also on the 25th there were about 20mm. Bright sunshine was very deficient; at many of the Scottish stations and in northern England the week was sunless. Thunder and lightning occurred at Markree Castle on the 25th, and lightning was seen in many parts of southern Scotland on the same day. Glazed frost occurred at West Linton on Thursday. A solar halo was seen at the Royal Observatory, Greenwich, on the 25th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	27	8·0	14	4·1	10	5·3	11	3·0	21	4·7	18	2·9	19	4·1	20	4·0
North	0	—	1	1·3	10	2·7	4	1·6	3	2·2	7	4·2	0	—	4	1·0
West	5	2·6	8	2·6	5	2·0	3	1·3	17	2·7	13	5·5	8	5·0	9	5·3
East	18	5·4	7	2·7	19	5·3	13	2·1	6	2·1	13	2·3	6	1·4	14	2·1
Calm	1	—	13	—	4	—	11	—	2	—	0	—	6	—	4	—

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet. *See below*, Note (1).

DISTRICTS OF THE BRITISH ISLES.

	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ... Warmth ...	Moderate	Moderate	Deficient	Deficient	Deficient	Deficient	Moderate	Moderate	Deficient	Moderate	Moderate	Deficient
Rainfall ...	Light	Heavy	Heavy	Moderate	Heavy	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Heavy
Sunshine ...	Moderate	Very scanty	Very scanty	Very scanty	Scanty	Scanty	Scanty	Scanty	Moderate	Moderate	Moderate	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

WINTER. 8 weeks from Dec. 1st, 1918. Warmth ...	2, 4, 2	2, 5, 1	2, 5, 1	4, 3, 1	2, 5, 1	5, 2, 1	2, ,0	2, 6, 0	3, 4, 1	3, 5, 0	2, 4, 2	4, 3, 1
Rainfall ...	1, 6, 1	3, 4, 1	5, 2, 1	6, 2, 0	5, 3, 0	3, 4, 1	3, 5, 0	5, 3, 0	6, 2, 0	5, 3, 0	5, 3, 0	6, 1, 1
Sunshine ...	3, 3, 2	4, 1, 3	2, 3, 3	0, 5, 3	3, 2, 3	1, 3, 4	2, 4, 2	2, 4, 2	1, 6, 1	4, 3, 1	1, 6, 1	1, 3, 4

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1·m/s. = 2·24 miles per hour.

(21501—19.) Wt. 199—789. 625. 1/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM

[TEMPERATURE and RAINFALL, first published in 1875, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.							Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average	Earth 4 ft Mean.	Earth 4 ft Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F	°F		in	mm	mm.	hr.	hr.	°/c.		°F.	°F.	°F	°F.	°F.
0. SCOTLAND, N.																						
a Lerwick	84	46	24, 25	35	19th	42·6	37·6	40·2	+ 1·3	7	0·75	19	- 10									
a. Islands .. a Houton Bay	—	46	24th	34	19th	42·1	37·3	39·8	—	—	—	—	—	Deerness ..	1·0	0·0	14	•	•	•	•	•	•
a Stornoway	51	50	24th	30	19th	46·0	36·9	41·6	+ 2·2	6	1·06	27	- 9	Stornoway ..	0·4	- 0·6	5	•	•	•	•	•	•
a Castlebay, Barra Isd.	37	49	23-25	30	19th	47·4	41·9	44·8	—	7	0·92	23	—	Castlebay ..	0·5	—	7	•	•	•	•	•	•
a Wick	80	47	24th	32	19th	43·8	38·6	41·2	+ 3·2	5	0·60	15	- 3									
b. Main- a Strathpeffer	125	48	24th	22	19th	39·6	28·0	†34·0	- 3·5	1	0·21	5	- 17	Fort Augustus ..	—	—	—	•	•	•	•	•	•
land. p Glencarron	90	48	24th	27	19th	42·9	34·3	38·8	+ 1·6	5	1·45	37	- 31									
a Fort Augustus	85	48	24th	29	19th	43·9	34·0	39·2	+ 1·4	2	0·59	15	- 22									
p Fort William	171	47	24th	25	19th	44·0	36·9	40·6	+ 1·6	5	1·37	35	- 31									
1. SCOTLAND, E.																						
a Nairn	82	51	24th	22	19th	43·9	31·9	38·1	+ 0·4	7	0·31	8	- 3	Nairn	0·7	—	9	•	•	•	•	•	•
p Gordon Castle	101	50	24th	25	19th	43·9	35·1	39·7	+ 1·1	5	0·48	12	+ 1	Gordon Castle ..	0·5	—	7	•	•	•	•	•	•
a Aberdeen	46	45	24th	27	20th	42·6	35·9	39·4	+ 0·9	6	1·27	32	+ 20	Aberdeen ..	0·1	- 1·7	1	1	17	•	•	39·6	- 0·1
a Balmoral	930	44	24, 25	15	19th	39·9	29·6	35·0	+ 0·3	7	0·32	8	- 7	Balmoral ..	•	•	•	4	12	•	•	•	•
p Crieff	432	44	24, 25	23	19th	38·9	32·1	35·6	- 2·0	7	1·31	33	+ 11	Crathes	0·0	- 2·1	0	1	14	34·4	- 0·6	37·0	- 0·8
a Dundee	244	44	24th	21	19th	39·9	32·6	36·4	- 1·1	7	0·72	18	+ 7	Dundee	0·0	—	0	2	16	34·0	•	•	•
a Leith	30	46	24, 25	27	19th	41·4	33·4	37·6	- 2·0	7	1·15	29	+ 20	Leith	—	—	—	2	22	•	•	•	•
p Edinburgh	441	46	24, 25	30	19th	41·1	34·7	38·0	- 0·4	6	0·57	15	+ 5	Edinburgh ..	0·0	- 1·9	0	4	20	•	•	•	•
a West Linton	769	45	21st	17	19th	39·3	29·1	34·4	- 0·4	6	0·68	17	—	West Linton ..	0·3	—	4	4	13	•	•	•	•
p Marchmont	498	41	25th	26	19th	37·4	30·6	31·1	- 2·9	6	1·15	29	+ 16	Marchmont ..	0·0	- 1·6	0	•	•	•	•	•	•
6. a. SCOTLAND, W.																						
a Ford (Argyll)	149	46	23, 25	26	19th	43·7	36·1	40·1	—	6	1·86	47	—	Ford (Argyll) ..	•	•	•	2	16	37·9	•	40·6	—
p Glasgow Observatory	180	46	24, 25	29	19th	41·3	35·4	38·5	- 0·6	6	1·02	26	+ 7	Glasgow	0·0	- 0·8	0	2	21	•	•	•	•
p Rothesay	200	46	24, 25	33	19th	42·4	36·7	39·7	- 0·3	7	1·57	40	+ 14	Rothesay	0·1	—	1	1	23	38·6	•	42·0	- 0·1
a Kilmarnock	90	46	24th	28	19th	42·7	36·6	39·8	+ 1·6	6	0·89	23	+ 3	Kilmarnock ..	0·0	—	0	•	•	38·1	•	41·4	—
a Colmonell	170	47	24th	28	19th	44·4	37·7	41·2	+ 2·0	6	0·79	20	- 5	Colmonell ..	•	•	•	1	26	•	•	•	•
p Cally, Gatehouse ..	120	45	21, 25	27	19th	41·4	34·6	38·6	- 0·2	7	2·82	72	+ 46	Dumfries	0·0	—	0	2	15	37·7	+0·8	41·1	+0·7
p Dumfries	160	45	21, 25	26	19th	40·4	33·7	37·2	- 1·4	7	0·61	15	- 3	Eskdalemuir ..	0·0	—	0	2	12	•	•	•	•
a Eskdalemuir	794	41	25th	17	19th	38·1	29·3	33·9	—	7	1·39	35	—										
b. I. OF MAN p Douglas	277	48	21st	37	19th	44·9	39·1	42·1	+ 1·0	6	1·28	33	+ 13	Douglas	0·6	- 1·1	7	1	30	•	•	•	•
2. ENGLAND, N.E.																						
a Alnwick Castle ..	210	44	24, 25	23	19, 20	40·0	30·6	35·5	- 2·8	7	1·13	29	+ 18										
a Tynemouth	71	42	25th	28	19, 20	39·1	32·4	35·9	- 3·0	6	0·75	19	+ 11	Cockle Park ..	0·0	- 1·9	0	3	18	34·9	-1·0	38·9	- 0·6
a Durham	336	37	20-22, 25	23	19th	35·7	30·1	33·0	- 4·5	6	0·36	9	+ 1	Durham	0·0	- 1·7	0	5	11	•	•	•	•
a North .. p Rounton	249	39	20, 21, 25	24	19th	37·1	30·7	34·0	- 3·4	4	0·40	10	+ 2	Rounton	•	•	•	4	13	35·7	•	•	•
a West Witton	605	43	25th	23	19th	37·7	29·3	33·7	—	4	0·68	15	—	West Witton ..	•	•	•	5	17	35·0	•	39·0	•
p Scarborough	100	42	23rd	31	25th	39·0	33·3	36·3	- 2·8	5	0·74	19	+ 9	Scarborough† ..	0·7	- 0·9	9	•	•	•	•	39·5	•
p York	58	39	20-22	26	19th	37·4	31·9	34·8	- 3·6	4	0·74	19	+ 10	York	0·1	- 1·1	1	—	—	37·2	- 0·7	41·7	0·0
a Spurn Head	26	40	19, 20	30	19th	38·6	33·1	36·0	- 2·8	3	0·52	13	+ 6	Spurn Head ..	0·5	—	6	•	•	•	•	•	•
b. South .. a Lincoln	58	39	19, 20, 22	28	19, 23	38·4	31·0	34·9	- 2·8	4	0·74	19	+ 11	Lincoln	•	•	•	6	22	36·0	- 0·3	41·8	+0·8
a Fulbeck	180	40	23rd	25	19th	37·9	29·3	33·8	- 3·9	3	0·85	22	+ 14	Rauceby	—	—	—	—	—	—	—	—	—
														Skegness ..	0·7	- 1·3	8	•	•	•	•	•	•
3. ENGLAND, E.																						
p Cromer	196	41	19th	28	25th	38·4	31·4	35·0	- 3·4	4	0·26	7	- 1	Cromer	0·4	- 1·8	5	•	•	•	•	•	•
a Little Massingham ..	280	39	20th	26	19, 25	39·6	28·1	32·5	- 5·1	4	0·33	8	- 3	Lit. Massingham	0·1	- 1·8	1	•	•	•	•	•	•
a Yarmouth	13	41	20th	30	19th	39·3	35·7	36·6	- 1·6	3	0·26	7	- 2	Yarmouth ..	—	—	—	1	29	40·6	+3·3	45·0	+2·2
a Norwich	93	40	20th	27	19th	38·4	30·7	34·7	- 3·3	3	0·30	8	- 2	Norwich	0·4	—	5	6	23	35·9	•	•	•
a Geldeston	37	40	19-21, 23	26	19th	39·1	31·0	35·2	- 3·4	5	0·30	8	- 1	Geldeston	0·3	- 1·8	4	•	•	•	•	•	•
p Cambridge	41	40	20, 21	23	25th	37·7	28·7	33·4	- 4·9	3	0·81	21	+ 13	Cambridge	0·3	- 1·8	4	6	20	37·8	+0·1	43·4	+0·9
a Clacton-on-Sea ..	54	42	19th	29	20th	40·0	33·7	37·0	- 1·3	3	0·34	9	+ 2	Clacton	0·6	- 1·7	7	3	26	39·2	0·0	44·6	+0·7
a Rothamsted	424	40	20th	24	25th	37·4	28·7	33·2	- 4·6	5	0·72	18	+ 7	Rothamsted	0·5	- 1·6	6	6	19	37·1	•	•	•
p Tottenham	51	42	20th	29	19, 23	38·6	32·3	35·6	—	3	0·44	11	—	Tottenham	0·1	—	1	6	23	•	•	44·1	+0·3
4. MIDLAND COUNTIES.																						
a Harrogate	479	39	25th	26	19, 23	36·6	29·3	33·1	- 4·4	5	0·96	24	+ 11	Harrogate	0·0	- 1·8	0	4	18	36·5	-1·0	39·8	- 0·2
a North .. p Sheffield	429	41	20, 21	28	23, 24	38·1	32·0	35·2	—	4	0·67	17	—	Sheffield	0·1	- 1·4	1	3	22	36·5	- 0·5	41·9	+0·3
p Buxton	987	—	—	—	—	—	—	—	—	—	—	—	—	Buxton	—	—	—	—	—	—	—	—	—
a Bawtry	65	39	20th	24	19th	37·4	29·1	33·4	- 4·9	4	0·48	12	+ 3	Worksop	0·3	- 1·1	4	6	16	36·5	•	40·7	—
a Nottingham	82	41	20th	25	24th	38·0	28·1	33·3	- 5·1	4	0·65	16	+ 6	Nottingham	0·7	- 0·6	8	6	21	34·9	- 1·3	39·8	0·0
b. East .. p Birmingham, Edgbn	535	43	21st	27	24th	38·3	31·4	35·0	- 3·6	4	0·56	14	+ 3	Birmingham	1·1	- 0·2	13	5	16	38·7	- 0·3	44·7	+0·6
a Raunds	203	40	20, 24	22	19th	38·6	27·1	33·1	- 4·5	4	0·91	23	+ 14	Raunds	1·0	—	12	6	16	39·1	•	45·0	—
p Oxford	208	43	20th	23	25th	37·9	29·1	33·7	- 5·5	4	0·84	21	+ 11	Oxford	1·2	- 0·7	14	5	14	•	•	•	•
														Malvern	1·7	—	20	6	20	37·6	—	42·1	—
a Cheadle (N. Staffs.) ..	646	41	20th	26	24th	37·9	31·0	34·6	- 2·7	4	1·08	28	+ 14	Cheadle	•	•	•	4	24	•	•	•	•
c. West .. p Tenbury	313	48	21st	23	23, 24	40·3	30·6	35·6	- 3·8	5	0·34	9	0	Tenbury	•	•	•	4	19	38·1	•	•	•
p Ross-on-Wye	201	49	21st	22	23rd	42·4	31·4	37·1	- 2·0	4	0·40	10	- 2	Ross-on-Wye ..	1·2	—	14	4	19	—	—	•	•
a Clifton	228	49	21st	27	23, 25	42·4	31·7	37·3	- 3·0	3	0·70	18	0	Clifton	2·0	—	24	5	24	•	•	•	•
5. ENGLAND, S.E.																						
a Marlborough	424	44	20th	21	24th	40·1	27·7	34·2	- 3·6	4	0·74	19	+ 5	Worthing	2·2	- 0·1	26	6	22	38·7	- 0·5	45·6	+1·4
p Salisbury (Wilton) ..	180	45	20, 21	21	25th	40·6	28·9	35·0	- 3·2	4	1·23	31	+ 14	Marlborough ..	1·8	+ 0·2	21	5	15	38·0	•	44·8	—
a Wisley, Surrey ..	150	42	20th	24	23, 25	38·9	28·6	34·0	- 4·5	4	0·31	8	- 2	Salisbury	•	•	•	5	18	38·6	•	•	•
a Tunbridge Wells ..	354	41	19th	26	19th	38·0	29·3	33·8	- 4·3	4	0·34	9	- 5	Wisley	0·4	- 1·4	5	5	15	37·9	- 0·3	43·8	+1·1
a Margate	51	41	19-21	32	19th	40·1	34·3	37·3	- 2·3	3	0·49	12	+ 3	Tunbridge Wells	0·3	- 1·6	3	6	17	39·1	+2·5	44·1	—
														Margate	1·0	- 0·9	12	4	29	39·8	+0·2	44·7	+1·5
a Dungeness	21	43	19th	27	19th	40·0	32·9	36·6	- 2·9	3	0·20	5	- 5	Folkestone ..	1·2	—	14	•	•	•	•	45·9	—
p St. Leonards	178	44	19, 20	31	24, 25	40·9	34·6	37·9	- 1·9	4	0·31	8	- 5	St. Leonards ..	1·3	- 0·9	15	4	25	39·1	•	45·1	—
p Southampton	64	45	20th	22	25th	40·7	31·0	36·0	- 4·4	4	0·86	22	+ 7	Southampton ..	1·8	- 0·1	21	5	13	•	•	•	•
a Ventnor	50	44	19-21, 25	30	25th	42·3	35·3	38·9	- 2·9	4	0·66	17	+ 3	Ventnor	1·4	- 0·8	16	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	42	20, 21	27	19, 23–25	39·4	29·9	34·8	- 4·4	3	0·50	13	+ 3	Richmond	0·1	- 1·5	1	5	18	37·4	- 0·7	44·1	+0·6
a Westminster	27	43	20, 21	27	25th	40·7	30·6	35·9	- 4·0	4	0·39	10	+ 1	Westminster	0·0	- 0·8	0	6	24	•	•	•	•
cg Greenwich	149	42	20th	25	19, 23	39·1	29·4	34·4	- 4·3	4	0·37	9	0	Greenwich	0·5	- 1·0	6	6	17	•	•	•	•
a Hampstead	450	—	—	—	—	—	—	—	—	—	—	—	—	Hampstead	—	—	—	—	—	—	—	—	—
cg Camden Square ..	110	42	20, 21	25	23rd	39·6	29·4	34·7	- 4·4	4	0·48	12	+ 2	Camden Square ..	0·0	- 1·2	0	6	23	•	•	•	•
7. a. ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	45	21st	29	19th	41·4	31·4	38·0	- 0·5	6	0·62	16	- 3	Aspatria	0·3	- 1·4	4	3	24	38·0	-1·0	41·9	-1·3
p Newton Rigg	558	43	21st	23	19th	39·0	31·4	35·4	- 1·9	4	0·46	12	- 8	Newton Rigg ..	0·5	- 1·1	6	4	17	36·6	-1·0	40·2	-0·3
p Stonyhurst	375	—	—	—	—	—	—	—	—	—	—	—	—	Stonyhurst ..	—	—	—	—	—	•	•	•	•
p Blackpool	66	44	20, 21	29	19th	40·6	33·7	37·3	- 1·8	6	0·61	15	- 1	Blackpool ..	0·4	- 1·5	5	6	17	39·6	•	44·0	—
a Southport	37	44	20, 21	31	19, 23	40·6	33·7	37·3	- 1·9	4	0·57	15	0	Southport ..	0·7	- 1·2	9	2	27	36·8	+0·4	40·4	+0·1
														Hoylake	0·7	- 1·2	9	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	45	20, 21	31	23, 24	40·9	34·0	37·6	- 2·2	4	0·47	12	0	Liverpool	0·9	—	11	4	26	•	•	•	•
a Hawarden Bridge ..	22	47	21st	30	23rd	42·4	34·3	38·5	- 1·8	4	0·37	10	- 1	Manchester (City)	0·2	- 0·5	2	2	26	37·1	- 0·4	42·0	- 0·7
p Manchester (Whit. Pk.)	126	45	20, 21	27	23rd	40·4	33·3	37·0	- 2·7	4	0·51	13	- 1	Whitworth Park	0·6	- 0·2	7	•	•	•	•	•	•
b. NORTH WALES.																						
p Llandudno	16	49	25th	32	23rd	44·6	37·1	41·0	- 0·8	5	0·44	11	- 4	Llandudno	0·6	- 1·5	7	•	•	•	•	•	•
a Holyhead	15	48	21st	36	22, 23	45·6	38·1	42·0	0·0	5	0·79	20	+ 3	Holyhead	0·9	—	11	2	28	•	•	•	•
a Beddgelert	309	46	20th	25	23rd	43·0	33·1	38·3	—	6	1·97	50	—	Aberdovey	—	—	—	•	•	•	•	•	•
a Aberdovey	32	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft Mean.	Deviation from average	Earth 4 ft Mean.	Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
a. SOUTH WALES.																						
a Aberystwyth	59	49	20th	29	23rd	44·1	36·3	40·4	—	4	0·59	15	—	Aberystwyth ..	1·0	– 0·9	12	•	•	•	•	•	•
a Rhayader	757	46	20th	22	23rd	40·4	30·1	35·5	—	5	0·88	22	—	Rhayader ..	0·7	—	8	4	14	•	•	•	•
a St. Ann's Head	149	52	20th	39	19, 22, 23	46·6	40·6	43·7	+ 0·9	5	0·76	19	0	St. Ann's Head ..	1·1	– 0·7	13	•	•	•	•	•	•
p Cardiff	202	50	21st	24	24th	41·6	32·1	37·0	– 2·4	3	1·16	29	+ 7	Cardiff	2·3	—	27	5	16	39·0	+0·3	44·7	+1·4
b. ENGLAND, S.W.																						
a Bath	66	50	21st	22	24th	43·9	29·9	37·2	– 2·6	3	0·66	17	+ 3	Bath	•	•	•	•	•	40·0	+0·8	45·0	+1·0
a Shaftesbury	722	44	20, 21	26	24th	39·9	30·6	35·4	– 2·7	3	0·76	19	+ 3	Shaftesbury ..	•	•	•	•	•	38·3	•	43·5	•
a Arlington	613	47	19, 20	26	23rd	43·1	32·7	38·1	– 1·4	4	1·43	36	+ 8										
a Hartland Quay ..	100	—	—	—	—	—	—	—	—	—	—	—	—										
a Newquay	190	50	20th	29	23rd	46·3	35·1	40·9	– 2·6	4	1·30	33	+ 15	Newquay ..	2·6	+ 0·7	30	5	23	43·6	•	47·4	•
a Cullompton	202	49	19–21	25	23, 24	43·4	31·1	37·5	– 2·7	4	1·15	29	+ 10	Cullompton ..	1·8	+ 0·2	21	5	16	41·1	•	•	•
a Portland Bill	19	48	20, 21	34	21th	43·7	37·6	40·8	– 1·5	4	0·68	17	+ 4	Weymouth ..	2·5	—	29	•	•	•	•	•	•
p Plymouth	116	50	20th	32	23–25	46·0	36·1	41·3	– 1·3	4	0·88	22	+ 2	Plymouth ..	2·1	+ 0·2	24	4	27	40·9	– 0·4	46·5	•
a Falmouth	167	49	19, 20	33	23, 24	45·9	36·6	41·4	– 2·2	4	1·91	48	+ 23	Falmouth ..	1·4	– 0·6	16	3	26	43·0	•	46·6	•
9. IRELAND, N.																						
a West .. { *a* Malin Head	208	48	23–25	37	20, 22	46·7	39·9	43·4	+ 1·8	6	0·84	21	+ 6	Malin Head ..	1·1	—	14	•	•	•	•	•	•
{ *a* Blacksod Point ..	327	49	23, 24	35	19, 20	46·7	38·1	42·6	– 0·6	6	0·83	21	– 8	Markree Castle	1·2	– 0·3	15	1	26	40·8	+0·4	43·9	–0·4
{ *p* Markree Castle ..	122	50	24th	31	22nd	47·3	38·7	43·2	+ 2·7	6	1·09	28	+ 5										
b, East .. { *p* Armagh	196	48	21, 24, 25	35	22nd	46·7	39·0	43·0	+ 2·7	6	0·67	17	+ 2	Armagh	1·3	– 0·3	16	1	26	40·5	+0·8	43·1	–0·1
{ *a* Donaghadee	101	47	21st	35	19th	45·3	39·7	42·6	+ 1·3	6	0·67	17	+ 2										
10. IRELAND, S.																						
p Dublin, City	47	49	24th	32	22nd	46·7	37·7	42·4	+ 0·1	5	0·35	9	– 3	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
a Birr Castle	175	49	19th	27	19th	46·7	36·1	41·6	+ 1·2	4	0·59	15	+ 1	Phœnix Park ..	1·4	– 0·6	17	3	23	•	•	•	•
a Kilkenny	212	48	23, 25	25	19th	46·7	35·7	41·4	+ 0·8	7	0·59	15	– 1	Dublin City ..	•	•	•	2	29	•	•	•	•
a Waterford	120	50	19, 22	29	19th	48·3	39·0	43·8	+ 1·6	6	0·76	19	0	Birr Castle ..	1·5	– 0·3	18	?2	20	•	•	•	•
p Seskin, Carrick-on-Suir	541	49	19, 23	35	22nd	46·6	39·3	43·1	—	6	0·63	16	—	Seskin	1·5	—	18	1	29	•	•	•	•
a Cahir	198	49	25th	26	19th	46·4	37·6	42·2	+ 1·1	6	1·01	26											
a Foynes	50	52	24th	28	19th	48·0	39·9	44·1	+ 1·8	6	0·71	18	– 2										
a Cahirciveen (Val. Obs.)	30	51	21st	36	19th	49·6	43·6	46·7	+ 2·0	7	1·46	37	+ 8	Cahirciveen ..	1·9	+ 0·2	23	0	41	•	•	•	•
a Killarney	174	53	19th	38	19th	50·3	42·4	46·5	+ 3·4	7	0·89	23	– 8	Ballinacurra ..	1·5	– 0·5	17	•	•	•	•	•	•
a Roche's Point	32	51	19th	33	19th	48·7	40·1	44·6	+ 0·8	7	0·99	25	+ 3										
11. ENGLISH CHANNEL.																						
a Scilly, St. Mary's ..	131	51	19th	39	19, 24	48·3	41·9	45·2	– 0·5	4	0·98	25	+ 9	Scilly	1·3	– 0·8	15	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	50	21st	31	23rd	44·3	36·6	40·3	– 2·7	4	1·57	40	+ 24	St. Heliers ..	2·2	– 0·2	25	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	50	21st	36	24th	44·9	39·0	42·1	– 1·4	4	1·72	44	+ 27	Guernsey† ..	0·8	– 1·3	9	0	32	43·3	+0·7	47·4	+1·1

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, January 25th, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	Ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	19 to 23	62	72	36	8	0	124	17	21	4	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	19	106	43	0	169	8	20	16	17	20	13	0
Aberdeen	153	105	52	—	—	20	5	38	97	30	0	146	13	20	23	21	20	23	10
Edinburgh	485	39	31	—	—	24, 25	4	19	70	75	0	191	13	24	17	18	24	16	40
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	—	—	33	66	69	0	220	10	24	14	15	25	23	55
Paisley	188	81	15	—	—	—	—	12	83	73	0	191	10	25	24	18	25	23	55
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
South Shields	72	61	12	—	—	20	9	23	131	5	0	169	14	20	14	20	20	15	5
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	20, 23	13	65	65	25	0	135	14	20	19	—	—	—	—
Gorleston	52	42	‡	—	—	20, 21	21	62	71	14	0	135	17	20	18	21	20	18	5
Shoeburyness	103	90	‡	—	—	20	11	79	62	16	0	157	13	20	20	17	20	19	55
4. MIDLAND COUNTIES																			
Benson	270	84	‡	—	—	—	—	37	57	74	0	135	10	20	11	14	20	19	30
5. ENGLAND, S.E.																			
Warlingham	642	33	‡	—	—	—	—	23	71	2	72	—	8	20	5	14	20	8	10
Brighton	261	53	6	—	—	—	—	41	109	18	0	—	10	20	15	17	20	15	5
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Richmond (Kew Obs.)..	82	66	22	—	—	—	—	—	61	107	0	169	5	20	21	9	20	20	40
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	—	51	79	38	67	5	20	16	9	20	29	55
Fleetwood (Cup Anr.) ..	109	44	‡	—	—	—	—	73	88	1	6	135	10	24	9	—	—	—	—
Southport	80	62	48	—	—	—	—	79	89	0	0	124	10	20	12	16	20	11	45
Holyhead	60	40	‡	—	—	—	—	90	75	3	0	236	10	25	24	15	25	23	35
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	20	2	57	84	25	0	180	12	20	12	20	20	8	20
Plymouth	185	88	2	—	—	20	6	18	89	54	1	—	13	20	13	18	20	8	20
Lyme Regis	556	61	‡	—	—	20	1	31	35	86	15	—	12	20	17	16	20	16	25
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27		—	—	19	1	56	75	36	0	169	12	19	9	—	—	—	—
Quilty	100	40	‡	—	—	25	2	72	88	6	0	—	12	25	24	16	25	23	50
Cahirciveen (Val. Obs.)	98	41	‡	—	—	—	—	107	49	21	0	245	10	25	24	16	20	15	55
Weaver Pt.	180	30	‡	—	—	—	—	47	111	1	9	—	10	25	7	17	25	6	15
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	20, 21	11	57	72	21	0	315	15	20	14	20	20	14	10

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.] * Above tops of trees.
‡ Standard mounting. † Direction from the Robinson Anemometer at Falmouth Observatory. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FOURTH WEEK of 1919—January 19th to January 25th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest.	Temperature of the Air. At any "D.-V." Station. Lowest.	Temperature of the Air. Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	50	22	79·2	74·8	77·1	+ 0·6	3	− 5	26	− 9	4	− 1	0·86	22	+ 18	0·7	−0·2	9	1018
Eastern.																			
1. SCOTLAND, EAST ...	51	15	77·9	73·1	75·6	− 0·5	0	− 9	37	− 3	6	+ 2	0·83	21	+ 7	0·1	−1·5	2	1020
2. ENGLAND, N.E.	44	23	76·4	72·7	74·6	− 2·0	0	− 10	50	+ 15	5	+ 2	0·69	18	+ 9	0·3	−1·3	4	1024
3. ENGLAND, EAST ...	42	23	76·6	72·4	74·6	− 1·9	0	− 9	50	+ 13	4	0	0·42	11	+ 2	0·3	−1·8	4	1026
4. MIDLAND COUNTIES ...	49	22	76·9	71·8	74·4	− 2·2	0	− 11	52	+ 14	4	0	0·69	18	+ 6	0·8	−0·8	10	1025
5. ENGLAND, S.E.	45	21	77·5	72·6	75·2	− 2·0	0	− 11	43	+ 15	4	0	0·56	14	+ 2	1·2	−0·7	13	1026
Western.																			
6. SCOTLAND, WEST ...	48	25	78·9	75·4	77·3	+ 0·1	2	− 10	21	− 6	6	+ 1	1·36	35	+ 9	0·3	−1·0	4	1022
7. ENGLAND, N.W.	49	23	78·5	74·4	76·6	− 0·7	0	− 10	25	− 3	5	+ 1	0·53	13	− 5	0·5	−1·1	7	1023
8. ENGLAND, S.W.	52	22	79·4	73·9	76·8	− 1·3	4	− 11	32	+ 11	4	0	1·03	26	+ 5	1·5	−0·3	18	1023
9. IRELAND, NORTH ...	50	27	81·1	76·7	78·9	+ 0·8	19	+ 6	10	− 13	6	+ 1	0·78	20	0	1·3	−0·3	15	1018
10. IRELAND, SOUTH ...	53	25	81·8	76·9	79·5	+ 0·7	24	+ 4	8	− 9	6	+ 1	0·82	21	+ 1	1·6	−0·3	18	1021
11. ENGLISH CHANNEL ...	51	31	80·7	76·9	78·8	− 1·0	16	− 8	8	0	4	− 1	1·42	36	+ 20	1·4	−0·8	16	1024

THE SEASON (Winter).—Aggregates, &c., for the Period of 8 Weeks, December 1st, 1918, to January 25th, 1919.

0. SCOTLAND, NORTH ...	59	22	79·4	74·8	77·2	+ 0·5	69	+ 8	211	− 44	41	− 1	8·91	227	− 45	0·8	+0·1	13	1000
Eastern.																			
1. SCOTLAND, EAST ...	59	15	78·9	73·8	76·5	+ 0·4	66	+ 10	271	− 41	39	+ 6	5·54	140	+ 11	1·2	0·0	17	1002
2. ENGLAND, N.E.	60	23	80·0	75·2	77·7	+ 0·9	98	+ 30	202	− 56	40	+10	5·95	152	+ 60	1·2	−0·1	16	1004
3. ENGLAND, EAST ...	59	23	80·9	75·7	78·4	+ 1·7	132	+ 56	182	− 96	43	+10	5·42	138	+ 45	1·1	−0·4	14	1009
4. MIDLAND COUNTIES ...	59	22	80·9	75·5	78·3	+ 1·7	133	+ 49	190	−102	43	+10	6·46	165	+ 55	1·2	−0·1	16	1007
5. ENGLAND, S.E.	59	21	81·8	76·8	79·4	+ 1·8	202	+ 88	122	− 88	45	+14	6·38	162	+ 40	1·3	−0·2	16	1009
Western.																			
6. SCOTLAND, WEST ...	57	24	80·2	75·9	78·1	+ 0·7	99	+ 11	157	− 45	49	+11	11·16	283	+ 51	1·0	0·0	14	1004
7. ENGLAND, N.W.	58	23	80·9	76·4	78·8	+ 1·3	132	+ 42	139	− 67	46	+12	9·02	228	+ 75	1·1	−0·1	15	1005
8. ENGLAND, S.W.	59	22	82·1	77·3	79·8	+ 1·3	219	+ 75	90	− 62	47	+11	11·06	282	+ 85	1·5	0·0	19	1008
9. IRELAND, NORTH ...	60	24	81·4	76·6	79·1	+ 1·1	168	+ 59	124	− 45	49	+ 8	8·42	212	+ 40	1·5	+0·2	20	1002
10. IRELAND, SOUTH ...	60	23	82·3	77·0	79·8	+ 0·9	229	+ 60	100	− 38	47	+ 8	10·19	259	+ 63	1·7	+0·2	23	1005
11. ENGLISH CHANNEL ...	57	31	83·2	79·7	81·6	+ 1·2	319	+ 87	11	− 41	47	+ 6	9·78	249	+ 82	1·6	−0·3	20	1011

THE YEAR 1919.—Aggregates, &c., for the Period of 4 Weeks, December 29th, 1918, to January 25th, 1919.

0. SCOTLAND, NORTH ...	50	22	78·4	73·9	76·3	− 0·2	4	− 22	127	− 10	19	− 1	3·64	93	− 39	0·8	0·0	12	1000
Eastern.																			
1. SCOTLAND, EAST ...	51	15	77·8	72·8	75·4	− 0·5	0	− 25	161	− 2	21	+ 5	3·48	88	+ 30	1·1	−0·2	15	1000
2. ENGLAND, N.E.	53	23	78·4	73·9	76·2	− 0·2	7	− 23	137	− 4	21	+ 7	3·48	90	+ 50	1·2	−0·1	16	1003
3. ENGLAND, EAST ...	55	23	79·3	74·4	77·0	+ 0·8	24	− 7	126	− 29	20	+ 4	2·74	69	+ 28	1·1	−0·5	14	1006
4. MIDLAND COUNTIES ...	56	22	79·0	74·0	76·6	+ 0·4	18	− 18	132	− 27	20	+ 4	3·43	87	+ 39	1·4	0·0	17	1005
5. ENGLAND, S.E.	55	21	80·2	75·3	77·8	+ 0·7	55	+ 10	85	− 36	22	+ 7	4·10	104	+ 54	1·4	−0·2	17	1007
Western.																			
6. SCOTLAND, WEST ...	51	25	79·0	74·9	77·0	− 0·1	10	− 28	97	− 13	24	+ 5	5·37	136	+ 33	1·1	0·0	15	1002
7. ENGLAND, N.W.	54	23	79·3	75·1	77·3	+ 0·2	15	− 22	94	− 20	24	+ 8	3·64	91	+ 23	1·3	0·0	17	1002
8. ENGLAND, S.W.	56	22	80·6	75·7	78·2	+ 0·2	55	− 6	73	− 17	23	+ 6	5·46	139	+ 58	1·8	+0·2	22	1005
9. IRELAND, NORTH ...	52	24	80·1	75·4	77·8	0·0	37	− 14	86	− 11	25	+ 5	3·88	98	+ 19	1·5	+0·1	20	1000
10. IRELAND, SOUTH ...	54	23	80·9	75·6	78·4	− 0·2	61	− 17	77	+ 1	24	+ 5	4·63	118	+ 30	1·9	+0·3	24	1002
11. ENGLISH CHANNEL ...	56	31	82·1	78·3	80·3	+ 0·5	103	+ 6	11	− 24	23	+ 3	5·84	148	+ 80	1·8	−0·2	22	1007
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: COL. H. G. LYONS, R.E., F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: January 31st, 1919.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 5.

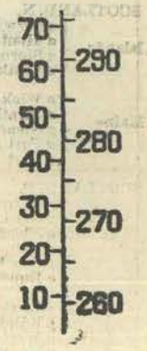
THE FIFTH WEEK OF 1919.

SUNDAY, JANUARY 26TH, TO SATURDAY, FEBRUARY 1ST, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

At the beginning of the week a depression from Iceland moved south-eastwards across the British Isles to France. After Tuesday an anticyclone became established between Scotland and Norway, and this system dominated the weather to the close of the period. At first the winds were South-Westerly to Westerly or North-Westerly, and on Monday there was a gale on the Cornish coast, but afterwards North-Easterly to Easterly winds became general. The week was the coldest of the season, the mean temperature being below the normal by about 2 a. in the Northern Districts, and the divergence increasing to nearly 4 a. in the east and south. The highest maxima occurred on the 26th nearly everywhere, and, with the exception of 284 a. at Killarney, they were all below 282 a.; later in the week the readings of the maximum thermometers were frequently below 275 a., the lowest being 271 a. at Oxford, Rothamsted and Shaftesbury on the 31st. The lowest minima occurred in Scotland on the night of the 27th–28th, when 265 a. was registered at Strathpeffer and 263 a. at West Linton and Kilmarnock. Rainfall exceeded the normal in England N.E. and England S.E., all other Districts having a deficiency. The snowstorm of Monday night was of a very partial character, but the yield of water at many of the Scottish stations was as much as 20mm., while in the home counties, to the northward of London, the fall was still heavier; at Hemel Hempstead the measurement was as much as 40mm., and on the morning of the 28th the snow lay on the ground to the depth of 11 inches. The Western and Northern Districts had bright sunshine in excess of the normal, in the east and south there was a deficit and at some stations the week was sunless. Thunder and lightning occurred at Markree Castle on the 26th. A display of aurora was witnessed at Fort William on the 28th and over Scotland generally on the 31st. A solar halo was seen at Oxford on the 26th and 27th, and the zodiacal light on the 26th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

Wind Component from	Scotland, N.		Edinburgh.		England, E.		London.		North Wales.		England, S.W.		Dublin.		Ireland, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	12	4·8	7	5·8	8	1·7	2	2·0	5	2·8	6	2·2	7	3·5	5	1·8
North	9	1·9	14	3·0	17	6·7	22	2·8	18	3·9	13	7·8	9	3·4	19	3·0
West	10	2·5	10	4·1	5	2·1	5	1·6	9	8·2	10	7·3	12	8·4	8	9·1
East	17	3·8	16	3·3	20	5·5	18	2·2	19	5·9	17	5·4	16	7·6	19	5·1
Calm	3	—	1	—	1	—	4	—	0	—	0	—	0	—	0	—

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c, is printed on a separate sheet *See below*, Note (1).

		Districts of the British Isles.											
		Extreme N.	Eastern Section.					Western Section.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient
	Rainfall ...	Light	Moderate	Moderate	Moderate	Moderate	Moderate	Light	Light	Light	Light	Light	Moderate
	Sunshine ...	Abundant	Moderate	Scanty	Very scanty	Very scanty	Very scanty	Moderate	Moderate	Abundant	Abundant	Abundant	Moderate

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

WINTER. 9 weeks from Dec. 1st, 1918.	Warmth ...	2, 4, 3	2, 5, 2	2, 5, 2	4, 3, 2	2, 5, 2	5, 2, 2	2, 6, 1	2, 6, 1	3, 4, 2	3, 5, 1	2, 4, 3	4, 3, 2
	Rainfall ...	1, 6, 2	3, 5, 1	5, 3, 1	6, 3, 0	5, 4, 0	3, 5, 1	3, 5, 1	5, 3, 1	6, 2, 1	5, 3, 1	5, 3, 1	6, 2, 1
	Sunshine ...	4, 3, 2	4, 2, 3	2, 3, 4	0, 5, 4	3, 2, 4	1, 3, 5	2, 5, 2	2, 5, 2	2, 6, 1	5, 3, 1	2, 6, 1	1, 4, 4

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:— Increment of 1 a. = increment of $\frac{5}{9}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(21604—19.) Wt. 199—789. 625. 2/19. D & S. G. 17. 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM[1]

['TEMPERATURE and RAINFALL,' first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.				Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft	
																	Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F		in	mm.	mm.		hr.	hr.	°/c.		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																						
a, Islands.. a Lerwick	54	40	29th	32	27, 29, 31	38·6	33·3	36·1	- 1·8	4	0·31	8	- 17				•	•	•	•	•	•
a Houton Bay	—	39	26th	31	27, 28	37·9	32·7	35·4	—	—	—	—	—									
a Stornoway	51	41	31st	27	28th	38·6	30·1	34·5	- 4·1	3	0·63	16	- 16	Stornoway	2·1	+ 0·7	27	•	•	•	•	•	•
a Castlebay, Barra Isd.	37	43	28th	33	27, 28	41·6	35·4	38·6	—	2	0·35	9	—	Castlebay	3·2	—	41	•	•	•	•	•	•
b, Mainland. a Wick	81	43	31st	25	28th	40·0	32·9	36·6	- 0·6	5	0·30	8	- 8	Fort Augustus	—	—	—	•	•	•	•	•	•
a Strathpeffer	125	37	26, 30	17	28th	34·4	26·3	30·5	- 6·3	1	0·53	13	- 7									
p Glencarron	500	41	26th	19	28th	35·9	27·3	31·8	- 4·7	3	1·20	30	- 28									
a Fort Augustus	68	40	29th	22	27th	35·3	24·6	30·2	- 6·8	—	—	—	—									
p Fort William	171	44	26th	19	28th	38·1	26·4	32·5	- 5·7	2	0·71	18	- 39									
1. SCOTLAND, E.																						
a Nairn	82	38	26th	21	28th	36·0	27·9	32·1	- 5·4	4	0·39	10	- 2	Nairn	1·7	—	21	•	•	•	•	•	•
p Gordon Castle	101	43	26th	23	28th	38·4	28·0	33·4	- 5·1	4	0·50	13	0	Gordon Castle	2·0	—	25	•	•	•	•	•	•
a Aberdeen	46	42	30, 31	31	28th	40·1	34·3	37·3	- 0·9	3	0·18	5	- 9	Aberdeen	2·3	+ 0·3	29	4	26	•	•	39·8	+0·4
a Balmoral	930	37	26th	19	28th	35·1	27·3	31·4	- 3·0	5	0·20	5	- 13	Balmoral	•	•	•	7	16	•	•	•	•
p Crieff	432	39	26, 1	24	28th	38·0	30·0	34·2	- 3·4	2	0·41	10	- 14	Crathes	1·7	- 0·5	21	7	19	34·4	-0·7	36·9	-0·7
a Dundee	244	40	26, 1	28	28th	38·4	30·9	34·8	- 2·6	4	0·34	9	- 4	Dundee	2·0	—	25	6	24	34·0	•	•	•
a Leith	30	41	29, 1	29	28th	39·6	33·7	36·8	- 2·6	6	0·64	16	+ 6	Leith	—	—	—	2	25	•	•	•	•
p Edinburgh	441	41	26th	28	28th	37·7	32·1	35·0	- 3·2	6	0·40	10	- 1	Edinburgh	1·3	- 0·8	16	4	26	•	•	•	•
a West Linton	769	36	26th	13	28th	34·3	27·4	31·0	- 3·9	4	1·18	30	—	West Linton	1·2	—	14	7	19	•	•	•	•
p Marchmont	498	40	29th	28	26th	37·4	29·6	33·7	- 3·3	3	0·44	11	- 3	Marchmont	1·2	- 0·6	14	•	•	•	•	•	•
6. a, SCOTLAND, W.																						
a Ford (Argyll)	149	46	26th	24	29, 1	40·5	29·1	35·0	—	3	0·54	14	—	Ford (Argyll)	•	•	•	6	15	37·2	•	40·6	•
p Glasgow Observatory	180	42	26th	25	28th	38·6	31·9	35·4	- 3·6	2	0·30	8	- 11	Glasgow	2·0	+ 0·9	24	3	15	•	•	•	•
p Rothesay	200	43	26th	31	27, 28	38·9	32·9	36·0	- 3·8	3	0·48	12	- 14	Rothesay	2·7	—	33	6	22	37·1	•	41·9	0·0
a Kilmarnock	90	42	26th	14	28th	38·1	27·0	32·8	- 5·4	2	0·80	20	0	Kilmarnock	2·0	—	24	•	•	37·0	•	41·2	—
a Colmonell	170	43	26th	29	28th	39·7	32·7	36·3	- 2·6	2	0·10	3	- 22	Colmonell	•	•	•	4	26	•	•	•	•
p Cally, Gatehouse	120	43	26, 29	27	28th	40·4	32·1	36·4	- 2·2	3	0·06	2	- 23	Dumfries	2·1	—	25	5	21	36·9	0·0	40·9	+0·8
p Dumfries	160	42	26th	28	28th	39·1	32·1	35·7	- 2·8	1	0·03	1	- 18	Eskdalemuir	1·6	—	19	7	18	•	•	•	•
a Eskdalemuir	794	37	26th	25	28th	35·3	30·1	32·8	—	3	0·24	6	—										
b, I. OF MAN p Douglas	277	44	26th	31	28, 29	39·3	33·7	36·6	- 4·2	3	0·32	8	- 13	Douglas	2·1	+ 0·1	24	3	28	•	•	•	•
2. ENGLAND, N.E																						
a Alnwick Castle	210	42	26th	31	27, 28	39·0	34·0	36·6	- 2·2	5	0·47	12	- 2									
a Tynemouth	71	42	26, 28	30	28th	39·6	34·3	37·1	- 2·3	4	0·44	11	+ 1	Cockle Park	1·2	- 1·1	14	3	21	34·5	-1·4	38·6	-0·6
p Durham	336	42	26th	28	27th	36·7	31·1	34·0	- 4·0	6	0·62	16	+ 6	Durham	1·7	- 0·3	20	5	19	•	•	•	•
a North .. p Rounton	249	43	26th	29	29th	37·1	31·0	34·2	- 3·8	6	0·43	11	+ 1	Rounton	•	•	•	7	20	35·5	•	•	•
a West Witton	605	41	26th	28	28th	36·1	31·6	33·9	—	5	0·35	9	—	West Witton	•	•	•	6	25	35·2	•	38·8	•
p Scarborough	100	43	26, 28	32	26, 31	41·0	33·7	37·5	- 2·2	5	0·86	22	+ 10	Scarborough†	1·4	- 0·5	16	•	•	•	•	39·5	•
p York	56	44	26th	30	29th	38·1	32·1	35·2	- 3·9	4	0·15	4	- 7	York	1·0	- 0·5	12	—	—	36·6	-1·2	41·0	-0·2
b, South .. a Spurn Head	26	41	26, 28	30	28, 31	37·9	32·1	35·1	- 4·2	7	0·51	13	+ 4	Spurn Head	0·8	—	9	•	•	•	•	•	•
a Lincoln	58	41	26th	31	27–29, 31	37·1	31·4	34·4	- 4·2	7	0·28	7	- 3	Lincoln	•	•	•	6	25	35·1	-1·2	40·8	+0·3
a Fulbeck	180	40	26th	29	1st	36·0	30·3	33·3	- 5·2	7	0·54	14	+ 4	Rauceby	—	—	—	—	—	—	—	•	•
														Skegness	0·5	- 1·9	6	•	•	•	•	•	•
3. ENGLAND, E.																						
p Cromer	196	42	28th	27	31, 1	36·6	29·1	33·0	- 5·6	7	0·16	4	- 6	Cromer	0·5	- 2·0	6	•	•	•	•	•	•
a Little Massingham	280	37	28th	26	31, 1	34·0	27·7	31·0	- 7·2	7	0·33	9	- 4	Lit. Massingham	0·3	- 1·9	3	•	•	•	•	•	•
a Yarmouth	13	40	28th	28	1st	36·7	30·1	33·5	- 4·8	4	0·26	7	- 4	Yarmouth	0·7	—	8	3	29	33·4	+1·1	44·1	+1·7
a Norwich	93	39	29th	27	27th	35·3	29·6	32·6	- 5·9	5	0·21	5	- 7	Norwich	0·6	—	7	6	25	35·0	•	•	•
a Geldeston	37	40	28th	25	31st	36·3	28·3	32·5	- 6·4	6	0·19	5	- 5	Geldeston	0·5	- 1·9	6	•	•	•	•	•	•
p Cambridge	41	38	26th	27	27, 31	34·4	28·9	31·8	- 7·0	5	0·95	24	+ 14	Cambridge	0·2	- 2·2	2	6	21	35·8	-1·8	42·0	0·0
a Clacton-on-Sea	54	40	26, 27, 29	28	27, 31	36·7	30·3	33·6	- 4·9	5	0·18	5	- 4	Clacton	0·0	- 2·6	0	4	27	37·9	-1·2	43·7	+0·3
a Rothamsted	424	37	26th	24	31st	33·3	27·7	30·6	- 7·6	6	0·98	25	+ 11	Rothamsted	0·0	- 2·3	0	5	23	35·4	•	•	•
p Tottenham	51	40	26th	28	31st	35·7	31·1	33·5	—	6	0·56	14	—	Tottenham	0·0	—	0	5	26	•	•	42·7	-0·5
4. MIDLAND COUNTIES.																						
a North .. a Harrogate	479	41	26th	29	28, 29	35·4	30·7	33·1	- 4·8	6	0·37	9	- 6	Harrogate	1·2	- 1·0	14	6	21	36·1	-1·3	39·1	-0·6
p Sheffield	429	42	26th	30	28th	37·1	31·7	34·5	—	6	0·31	8	—	Sheffield	0·3	- 1·6	3	5	27	35·4	-1·5	41·1	+0·1
p Buxton	987	—	—	—	—	—	—	—	—	—	—	—	—	Buxton	—	—	—	—	—	—	—	—	—
b, East .. a Bawtry	65	42	26th	30	27–29	36·4	31·0	33·8	- 5·2	3	0·27	7	- 3	Worksop	0·4	- 1·3	5	7	18	35·5	•	39·8	—
a Nottingham	82	42	26th	30	27, 28, 1	36·3	31·0	33·8	- 5·2	7	0·39	10	- 1	Nottingham	0·4	- 1·2	5	5	24	33·7	-2·5	38·5	-0·8
p Birmingham, Edgbsn.	535	43	26th	27	29th	35·6	29·3	32·6	- 6·5	4	0·24	6	- 6	Birmingham	0·6	- 0·9	7	7	23	36·4	-2·5	43·9	+0·2
a Raunds	203	41	27th	24	29th	35·1	27·6	31·5	- 6·7	3	0·90	23	+ 13	Raunds	0·2	—	2	7	20	37·1	•	44·9	—
p Oxford	208	40	26th	27	31st	34·7	29·7	32·3	- 7·5	5	0·23	6	- 5	Oxford	0·1	- 2·1	1	7	20	•	•	•	•
														Malvern	1·1	—	13	7	22	35·3	—	41·0	—
c, West .. a Cheadle (N. Staffs.)	646	39	26, 29	26	28th	35·3	29·0	32·3	- 5·6	5	0·28	7	- 8	Cheadle	•	•	•	7	26	•	•	•	•
p Tenbury	313	45	26th	26	28th	36·4	29·7	33·2	- 6·6	3	0·23	6	- 4	Tenbury	•	•	•	7	19	36·0	•	•	•
p Ross-on-Wye	201	47	26th	28	28, 31	37·3	30·7	34·1	- 5·6	5	0·09	2	- 11	Ross-on-Wye	1·2	—	14	4	20	—	—	•	•
a Clifton	228	43	26th	28	1st	36·0	31·0	33·6	- 7·1	7	0·40	10	- 10	Clifton	0·8	—	9	5	28	•	•	•	•
5. ENGLAND, S.E																						
														Worthing	0·3	- 2·4	3	4	22	36·9	-2·4	44·2	+0·4
a Marlborough	424	42	26th	25	26th	34·6	27·3	31·1	- 7·5	6	0·33	8	- 8	Marlborough	0·2	- 1·7	2	6	20	36·0	•	43·9	—
p Salisbury (Wilton)	180	43	26th	27	31st	36·0	28·7	32·5	- 6·6	3	0·16	4	- 14	Salisbury	•	•	•	6	24	35·8	•	•	•
a Wisley, Surrey	150	40	26th	27	31, 1	34·6	29·1	32·0	- 7·4	5	0·72	18	+ 7	Wisley	0·1	- 1·9	1	5	18	36·2	-1·9	42·3	+0·2
a Tunbridge Wells	354	42	26th	26	31st	34·4	29·0	31·8	- 7·2	5	0·75	19	+ 4	Tunbridge Wells	0·1	- 2·1	1	6	17	38·0	+1·6	42·8	—
a Margate	51	44	26th	28	31st	39·3	31·6	35·6	- 4·7	5	0·39	10	+ 1	Margate	0·5	- 1·7	6	5	28	37·9	-1·8	43·2	+0·5
a Dungeness	21	43	26th	25	27th	37·9	29·7	34·0	- 6·2	7	1·11	28	+ 17	Folkestone	0·3	—	3	•	•	•	•	45·0	—
p St. Leonards	178	44	26th	28	31st	37·6	31·3	34·6	- 5·9	7	0·67	17	+ 3	St. Leonards	0·2	- 2·5	2	5	25	37·2	•	43·9	—
p Southampton	64	40	26th	26	31st	35·9	29·3	32·7	- 8·6	5	0·18	5	- 11	Southampton	0·3	- 2·1	3	7	19	•	•	•	•
a Ventnor	59	45	26th	28	31, 1	38·0	31·7	35·0	- 7·5	6	0·50	13	- 2	Ventnor	0·8	- 1·9	9	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	40	26th	26	27th	35·4	29·2	32·4	- 7·7	4	0·59	15	+ 5	Richmond	0·1	- 1·8	1	4	19	35·6	-1·1	42·8	-0·2
a Westminster	27	41	26th	28	27, 31, 1	37·0	30·6	33·9	- 6·8	5	0·48	12	+ 2	Westminster	0·1	- 1·9	1	7	24	•	•	•	•
ag Greenwich	149	41	26th	27	31st	35·1	30·0	32·7	- 6·3	5	0·46	12	+ 3	Greenwich	0·2	- 1·5	2	6	18	•	•	•	•
a Hampstead	450	—	—	—	—	—	—	—	—	—	—	—	—	Hampstead	—	—	—	—	—	—	—	•	•
ag Camden Square	110	40	26th	27	31, 1	35·7	30·3	33·1	- 6·9	5	0·57	14	+ 3	Camden Square	0·0	- 1·5	0	7	24	•	•	•	•
7. a, ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	42	28th	26	28th	36·7	30·3	33·6	- 5·1	4	0·11	3	- 18	Aspatria	1·4	- 0·4	17	4	23	37·1	-1·8	41·7	-1·2
p Newton Rigg	550	42	26th	25	28th	37·3	29·6	33·6	- 3·8	3	0·25	6	- 16	Newton Rigg	2·1	+ 0·5	25	7	18	36·4	-1·0	40·0	-0·1
p Stonyhurst	375	42	26th	23	28th	37·1	30·3	33·8	- 4·7	5	0·74	19	- 6	Stonyhurst	1·2	- 0·3	14	5	14	•	•	•	•
p Blackpool	66	44	26th	27	28th	38·7	32·6	35·8	- 3·6	3	0·37	9	- 7	Blackpool	2·1	+ 0·2	24	6	15	38·0	•	43·5	—
a Southport	37	44	26th	26	28th	38·0	31·4	34·8	- 4·7	3	0·45	12	- 3	Southport	1·9	0·0	22	3	18	34·8	-1·5	39·8	0·0
														Hoylake	—	—	—	3	18	•	•	•	•
a Liverpool (Bidston)	188	43	26th	31	28, 29	37·7	32·7	35·3	- 4·7	3	0·16	4	- 8	Liverpool	1·8	—	21	5	23	•	•	•	•
a Hawarden Bridge	22	45	26th	30	28, 29	39·3	33·4	36·5	- 4·1	2	0·18	5	- 5	Manchester (City)	0·1	- 0·7	1	2	24	35·4	-1·9	41·3	-0·7
p Manchester (Whit. Pk.)	125	43	26th	24	28th	38·7	31·4	35·2	- 4·8	3	0·15	4	- 10	Whitworth Park	0·2	- 0·7	2	•	•	•	•	•	•
b. NORTH WALES.																						
p Llandudno	16	45	26th	32	29th	40·3	34·1	37·3	- 4·6	4	0·36	9	- 7	Llandudno	1·4	- 0·6	16	•	•	•	•	•	•
p Holyhead	15	45	26th	32	31st	40·6	36·3	38·5	- 3·5	2	0·24	6	- 12	Holyhead	1·9	—	22	2	28	•	•	•	•
a Beddgelert	309	43	26th	28	28th	39·0	32·0	35·6	—	5	1·26	32	—	Aberdovey	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average
	Ft.	°F.		°F.		°F	°F.	°F.	°F.		mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
8. *a*, SOUTH WALES.																						
a Aberystwyth	59	45	26th	25	29th	38·6	31·6	35·2	—	2	0·40	10	—	Aberystwyth ..	2·3	+ 0·1	26	•	•	•	•	•	•
a Rhayader	757	41	26th	28	28, 29	35·7	29·6	32·8	—	6	0·61	15	—	Rhayader ..	1·3	—	15	6	23	•	•	•	•
a St. Ann's Head ..	149	45	26th	28	1st	40·0	35·1	37·7	- 5·1	3	0·13	3	- 16	St. Ann's Head	3·2	+ 0·9	36	•	•	•	•	•	•
p Cardiff	202	44	26th	28	31, 1	37·1	30·3	33·8	- 6·0	4	0·31	8	- 12	Cardiff	1·6	—	18	7	20	36·4	-2·5	43·6	+0·8
b, ENGLAND, S.W.																						
a Bath	66	43	26th	28	1st	36·9	29·9	33·5	- 6·7	6	0·25	6	- 8	Bath	•	•	•	•	•	37·5	-1·3	43·8	+0·5
a Shaftesbury	722	41	26th	24	31, 1	33·9	27·1	30·6	- 7·9	2	0·20	5	- 10	Shaftesbury ..	•	•	•	•	•	35·3	•	42·2	•
a Arlington	613	44	26th	26	1st	37·1	31·0	34·2	- 5·5	3	0·87	22	+ 5										
a Hartland Quay ..	100	—	—	—	—	—	—	—	—	—	—	—	—										
a Newquay	190	47	26th	27	31st	40·0	33·3	36·8	- 6·8	3	0·17	4	- 14	Newquay ..	3·6	+ 1·2	40	4	18	41·1	•	46·7	•
a Cullompton	202	46	26th	27	1st	38·1	30·9	34·6	- 5·9	5	0·48	12	- 7	Cullompton ..	1·1	- 0·9	12	6	20	38·6	•	•	•
a Portland Bill	19	47	26th	29	1st	38·7	34·6	36·7	- 5·7	3	0·13	3	- 10	Weymouth ..	—	—	—	•	•	•	•	•	•
p Plymouth	116	46	26th	26	31st	40·3	32·1	36·4	- 6·1	3	0·23	6	- 13	Plymouth ..	3·0	+ 0·7	33	6	22	38·2	-3·1	45·5	•
a Falmouth	167	49	26th	28	1st	41·4	33·1	37·4	- 6·3	4	0·32	8	- 17	Falmouth ..	3·4	+ 0·9	38	4	25	40·3	•	45·7	•
9. IRELAND, N.																						
a West .. { *a* Malin Head	208	41	29th	33	28th	39·7	35·9	37·9	- 2·9	4	0·65	16	0	Malin Head ..	1·9	—	23	•	•	•	•	•	•
{ *a* Blacksod Point ..	327	43	28th	32	28-30, 1	39·9	32·9	36·5	- 5·9	3	0·20	5	- 24	Markree Castle	2·6	+ 1·0	30	7	19	39·2	-1·0	43·9	0·0
{ *p* Markree Castle ..	122	45	26th	23	29th	41·4	30·1	36·0	- 3·9	3	0·48	12	- 11										
b, East .. { *p* Armagh	196	43	26th	25	29th	38·9	31·4	35·3	- 4·4	4	0·56	14	- 1	Armagh	2·9	+ 1·2	31	5	18	39·3	-0·4	43·3	+0·4
{ *a* Donaghadee	101	43	26th	32	27th	40·4	35·0	37·8	- 2·9	3	0·51	13	- 2										
10. IRELAND, S.																						
p Dublin, City	47	44	26th	31	28th	40·1	34·1	37·2	- 5·0	6	0·34	9	- 3	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
a Birr Castle	175	—	—	—	—	—	—	—	—	—	—	—	—	Phœnix Park ..	—	—	—	5	22	•	•	•	•
a Kilkenny	212	41	26th	30	27-29, 31	38·9	31·0	35·1	- 5·6	4	0·21	5	- 11	Dublin City ..	•	•	•	2	27	•	•	•	•
a Waterford	120	42	26th	29	29th	39·9	31·9	36·1	- 6·1	2	0·21	5	14	Birr Castle ..	—	—	—	—	—	•	•	•	•
p Seskin, Carrick-on-Suir	541	43	26th	27	29th	37·7	29·4	33·7	—	3	0·21	5	—	Seskin	2·4	—	28	6	20	•	•	•	•
a Cahir	199	42	28th	27	31st	38·7	30·4	34·7	- 6·3	2	0·43	11	—										
a Foynes	50	43	28th	26	31st	39·7	32·1	36·1	- 6·2	2	0·39	10	- 9										
a Cahirciveen (Val. Obs.)	30	46	26th	31	30th	42·4	34·6	38·7	- 5·8	3	0·33	8	- 22	Cahirciveen ..	3·7	+ 1·8	43	2	28	•	•	•	•
a Killarney	174	52	26th	30	28-31, 1	41·6	31·8	36·9	- 5·9	4	0·68	17	- 14	Ballinacurra ..	3·1	+ 0·9	35	•	•	•	•	•	•
a Roche's Point	32	44	26th	31	30th	41·7	34·4	38·2	- 5·4	3	0·24	6	- 16										
11. ENGLISH CHANNEL.																						
a Scilly, St. Mary's ..	131	49	26th	31	1st	43·4	36·9	40·3	- 5·4	5	0·32	8	- 9	Scilly	3·2	+ 0·7	36	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	47	26th	32	1st	41·7	35·1	38·5	- 4·6	5	0·83	21	+ 5	St. Heliers ..	1·9	- 0·9	21	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	46	26th	33	1st	41·7	36·4	39·2	- 4·5	6	0·54	14	- 4	Guernsey† ..	1·6	- 0·9	18	0	31	41·2	-1·2	46·4	+0·6

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, February 1st, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time. day.	hr.	Highest Gust. Speed.	Date d.	h.	m.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.			m/s.			
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	25, 26	13	70	68	17	0	169	14	25	24	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	1	103	64	0	—	6	26	3	15	26	2	10
Aberdeen	153	105	52	—	—	—	—	56	80	32	0	90	10	29	22	16	26	1	45
Edinburgh	485	39	31	—	—	26	3	47	112	6	0	191	16	26	2	22	26	2	5
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	26	2	98	60	8	0	210	13	26	3	20	26	3	30
Paisley	188	81	15	—	—	—	—	15	114	39	0	203	10	26	21	24	26	0	40
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	12	103	53	0	113	7	30	11	12	26	1	30
South Shields	72	61	12	—	—	29, 30	12	77	72	7	0	113	12	30	10	17	30	1	20
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	29, 30, 1	21	82	60	5	0	45	14	30	20	—	—	—	—
Gorleston	52	42	‡	—	—	29, 30	7	73	52	5	32	45	11	30	18	16	30	18	40
Shoeburyness	103	90	‡	—	—	—	—	84	61	0	23	113	10	27	18	14	27	17	55
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	12	127	29	0	315	8	27	22	13	27	22	15
5. ENGLAND, S.E.																			
Warlingham	642	33	‡	—	—	—	—	—	102	3	63	—	5	30	6	9	30	3	25
Brighton	261	53	6	—	—	—	—	13	133	22	0	—	7	30	5	15	28	0	10
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	—	108	60	0	56	5	30	5	10	28	1	40
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	5	70	93	0	236	7	26	12	13	30	8	30
Fleetwood (Cup Anr.) ..	109	44	—	—	—	—	—	52	110	6	0	270	11	27	11	—	—	—	—
Southport	80	62	48	—	—	26, 27	4	84	80	0	0	281	12	26	8	18	27	7	10
Holyhead	60	40	‡	—	—	26 to 28, 30	26	107	35	0	0	304	15	27	13	21	27	20	15
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	27, 30	10	86	68	4	0	67	13	30	16	22	27	12	5
Plymouth	185	88	2	—	—	—	—	19	123	26	0	—	8	28	2	19	28	1	50
Lyme Regis	556	61	‡	—	—	—	—	36	100	30	2	—	9	27	23	13	27	13	25
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	27, 28, 30, 31	26	127	15	0	0	30	14	30	10	—	—	—	—
Quilty	100	40	‡	—	—	26, 27	18	54	91	5	0	—	16	27	10	28	27	10	10
Cahirciveen (Val. Obs.)	98	41	‡	—	—	27	7	105	55	1	0	335	13	27	10	24	27	5	50
Weaver Pt.	160	30	‡	—	—	27	7	115	46	0	0	—	13	27	14	25	27	14	30
11. ENGLISH CHANNEL.																			
Scilly	150	32	‡*	27	5	26-28	35	60	65	3	0	337	18	27	13	29	27	16	50

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.] * Above tops of trees.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FIFTH WEEK of 1919—January 26th to February 1st, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	43	17	75·9	71·2	73·7	− 2·4	0	− 7	62	+ 24	3	− 3	0·61	16	− 19	1·8	+0·5	22	1020
Eastern.																			
1. SCOTLAND, EAST ...	43	13	76·0	71·8	73·9	− 2·0	0	− 7	58	+ 15	4	0	0·49	13	− 2	1·7	−0·2	21	1020
2. ENGLAND, N.E.	44	28	76·4	73·1	74·8	− 2·0	0	− 9	47	+ 15	6	+ 2	0·48	12	+ 1	1·2	−0·9	13	1017
3. ENGLAND, EAST ...	42	24	74·9	71·4	73·3	− 3·5	0	− 10	67	+ 33	6	+ 2	0·42	11	0	0·3	−2·1	3	1016
4. MIDLAND COUNTIES ...	47	24	75·2	71·9	73·6	− 3·3	0	− 11	63	+ 30	5	+ 1	0·34	9	− 4	0·6	−1·3	7	1017
5. ENGLAND, S.E.	45	25	75·4	71·7	73·7	− 3·9	0	− 13	62	+ 36	5	+ 1	0·54	14	+ 1	0·3	−2·0	3	1015
Western.																			
6. SCOTLAND, WEST ...	46	14	77·1	72·7	74·9	− 2·2	0	− 9	46	+ 17	2	− 3	0·33	9	− 17	2·1	+0·5	24	1019
7. ENGLAND, N.W.	45	23	76·6	73·1	74·9	− 2·5	0	− 11	46	+ 21	3	− 2	0·29	7	− 11	1·6	−0·1	19	1017
8. ENGLAND, S.W.	49	24	76·3	72·7	74·6	− 3·6	0	− 16	50	+ 30	4	− 1	0·35	9	− 12	2·6	+0·4	29	1017
9. IRELAND, NORTH ...	45	23	77·5	73·6	75·6	− 2·2	0	− 13	37	+ 14	3	− 2	0·48	12	− 8	2·8	+1·1	32	1018
10. IRELAND, SOUTH ...	52	26	77·7	73·3	75·6	− 3·1	0	− 20	38	+ 20	3	− 2	0·35	9	− 11	3·4	+1·4	39	1019
11. ENGLISH CHANNEL ...	49	31	78·7	75·3	77·1	− 2·7	1	− 23	22	+ 15	5	0	0·56	14	− 3	2·2	−0·4	25	1017

THE SEASON (Winter).—Aggregates, &c., for the Period of 9 Weeks, December 1st, 1918, to February 1st, 1919.

0. SCOTLAND, NORTH ...	59	17	79·0	74·4	76·8	+ 0·2	69	+ 1	273	− 20	44	− 4	9·52	243	− 64	0·9	+0·1	14	1002
Eastern.																			
1. SCOTLAND, EAST ...	59	13	78·6	73·6	76·2	+ 0·1	66	+ 3	329	− 26	43	+ 6	6·03	153	+ 9	1·2	0·0	18	1004
2. ENGLAND, N.E.	60	23	79·6	75·0	77·4	+ 0·6	98	+ 21	249	− 41	46	+12	6·43	164	+ 61	1·2	−0·1	16	1006
3. ENGLAND, EAST ...	59	23	80·3	75·3	77·9	+ 1·2	132	+ 46	249	− 63	49	+12	5·84	149	+ 45	1·0	−0·6	13	1009
4. MIDLAND COUNTIES ...	59	22	80·2	75·1	77·8	+ 1·2	133	+ 38	253	− 72	48	+11	6·80	174	+ 51	1·1	−0·2	15	1008
5. ENGLAND, S.E.	59	21	81·1	76·2	78·7	+ 1·1	202	+ 75	184	− 52	50	+15	6·92	176	+ 41	1·2	−0·4	14	1010
Western.																			
6. SCOTLAND, WEST ...	57	14	79·8	75·6	77·8	+ 0·4	99	+ 2	203	− 28	51	+ 8	11·49	292	+ 34	1·2	+0·1	16	1005
7. ENGLAND, N.W.	58	23	80·4	76·1	78·3	+ 0·8	132	+ 31	185	− 46	49	+10	9·31	235	+ 64	1·2	0·0	15	1006
8. ENGLAND, S.W.	59	22	81·4	76·8	79·2	+ 0·8	219	+ 59	140	− 32	51	+10	11·41	291	+ 73	1·6	0·0	20	1009
9. IRELAND, NORTH ...	60	23	81·0	76·2	78·7	+ 0·7	168	+ 46	161	− 41	52	+ 6	8·90	224	+ 32	1·6	+0·3	21	1003
10. IRELAND, SOUTH ...	60	23	81·8	76·6	79·3	+ 0·4	229	+ 40	138	− 18	50	+ 6	10·54	268	+ 52	1·9	+0·3	25	1007
11. ENGLISH CHANNEL ...	57	31	82·7	79·2	81·1	+ 0·8	320	+ 64	33	− 26	52	+ 6	10·34	263	+ 79	1·7	−0·3	20	1011

THE YEAR 1919.—Aggregates, &c., for the Period of 5 Weeks, December 29th, 1918, to February 1st, 1919.

0. SCOTLAND, NORTH ...	50	17	77·9	73·4	75·7	− 0·7	4	− 29	189	+ 14	22	+ 4	4·25	109	− 58	1·0	+0·1	15·	1004
Eastern.																			
1. SCOTLAND, EAST ...	51	13	77·4	72·6	75·1	− 0·8	0	− 32	219	+ 13	25	+ 5	3·97	101	+ 28	1·2	−0·2	16	1004
2. ENGLAND, N.E.	53	23	78·0	73·7	75·9	− 0·6	7	− 32	184	+ 11	27	+ 9	3·96	102	+ 51	1·2	−0·3	15	1006
3. ENGLAND, EAST ...	55	23	78·4	73·8	76·2	− 0·1	24	− 17	193	+ 4	26	+ 6	3·16	80	+ 28	1·0	−0·8	12	1008
4. MIDLAND COUNTIES ...	56	22	78·2	73·6	76·0	− 0·4	18	− 29	195	+ 3	25	+ 5	3·77	96	+ 35	1·2	−0·3	15	1007
5. ENGLAND, S.E.	55	21	79·2	74·5	77·0	− 0·2	55	− 3	147	0	27	+ 8	4·64	118	+ 55	1·2	−0·6	14	1008
Western.																			
6. SCOTLAND, WEST ...	51	14	78·6	74·4	76·6	− 0·5	10	− 37	143	+ 4	26	+ 2	5·70	145	+ 16	1·3	+0·1	17	1005
7. ENGLAND, N.W. ...	54	23	78·8	74·7	76·8	− 0·4	15	− 33	140	+ 1	27	+ 6	3·93	98	+ 12	1·4	0·0	17	1005
8. ENGLAND, S.W.	56	22	79·7	75·1	77·5	− 0·5	55	− 22	123	+ 3	27	+ 5	5·81	148	+ 46	2·0	+0·3	24	1007
9. IRELAND, NORTH ...	52	23	79·6	75·0	77·3	− 0·5	37	− 27	123	+ 3	28	+ 3	4·36	110	+ 11	1·8	+0·4	23	1003
10. IRELAND, SOUTH ...	54	23	80·2	75·2	77·8	− 0·8	61	− 37	115	+ 21	27	+ 3	4·98	127	+ 19	2·2	+0·5	27	1005
11. ENGLISH CHANNEL ...	56	31	81·4	77·7	79·6	− 0·2	104	− 17	33	− 9	28	+ 3	6·40	162	+ 77	1·9	+0·2	22	1009
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	m.

METEOROLOGICAL OFFICE, LONDON: COL. H. G. LYONS, R.E., F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: February 7th, 1919.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. *Vol. XXXVI. (New Series.)* No. 6.

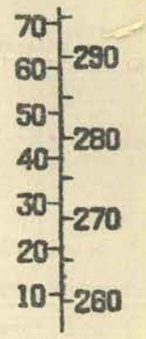
THE SIXTH WEEK OF 1919.

SUNDAY, FEBRUARY 2ND, TO SATURDAY, FEBRUARY 8TH, 1919.

Price 6d., Post free 6½d. Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

For the third week in succession the general character of the weather of the British Islands was wintry—the cold having increased in intensity each succeeding week. At the beginning of the period under review barometric pressure was irregularly distributed, but from Tuesday till Friday an Atlantic depression was moving south-eastwards from the West of Ireland to the South of France. Under the influence of this system the rainfall for the week was 8mm. in excess of the normal in England S.W. and Ireland S., and 29mm. in excess in the English Channel District—the precipitation was mostly rain. On the coasts of Devon and Cornwall the rainfall of the 6th exceeded 20mm. in many places. Over the Midland Counties and England S.E. nearly the whole of the week's fall (mostly snow) took place on Wednesday and yielded from 6mm. to 10mm. of water. Temperature was below the normal in all districts, the deficit was slight in Ireland S., but considerable elsewhere—between 3 a. and 4 a. over Great Britain generally. A maximum of 286 a. was reported at Killarney and of 285 a. at Cahirciveen on the 7th, and at a few other places the thermometer touched 284 a., but over England as a whole it failed to rise to 277 a. on any day, and at many stations the highest point reached was 275 a. The lowest minimum in the screen, 258 a. at Balmoral, occurred on the 5th, when the grass thermometer went down to 257 a., but the lowest minima over England invariably occurred on the 8th, readings of 266 a. and below were common in the East and South, the actual lowest being 261 a. in the screen at Raunds and 264 a. at Hemel Hempstead, the grass minimum at the latter station registering 260 a. After the passage of the disturbance noted above anticyclonic conditions became established over the British Isles, fine, bright weather being experienced over England on the last two days, with dry easterly winds. Solar halos were observed at Greenwich on the 6th, at Oxford on the 6th and 7th, and lunar halos at Norwich on the 6th and Dublin on the 7th. Aurora was witnessed at Aberdeen on the 4th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	13	6·9	13	4·3	8	1·7	7	1·8	24	2·0	18	5·8	24	5·7	24	3·3
North	10	2·6	0	—	17	3·8	10	1·6	0	—	6	3·0	2	1·5	3	1·5
West	11	2·5	6	3·6	6	2·3	0	—	1	1·2	6	6·4	2	14·2	6	2·8
East	10	4·7	12	2·5	19	6·0	18	4·0	22	2·6	21	5·8	14	3·7	20	5·8
Calm	4	—	9	—	3	—	10	—	2	—	0	—	1	—	1	—

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ... Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient	Deficient	Deficient	Moderate	Moderate	Deficient
Rainfall ...	Very light	Light	Light	Light	Light	Moderate	Very light	Very light	Heavy	Light	Heavy	Very heavy
Sunshine ...	Moderate	Moderate	Moderate	Moderate	Scanty	Moderate	Very Scanty	Scanty	Scanty	Scanty	Scanty	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

WINTER. 10 weeks from Dec. 1st, 1918. Warmth ...	2, 4, 4	2, 5, 3	2, 5, 3	4, 3, 3	2, 5, 3	5, 2, 3	2, 6, 2	2, 6, 2	3, 4, 3	3, 6, 1	2, 5, 3	4, 3, 3
Rainfall ...	1, 6, 3	3, 5, 2	5, 3, 2	6, 3, 1	5, 4, 1	3, 6, 1	3, 5, 2	5, 3, 2	7, 2, 1	5, 3, 2	6, 3, 1	7, 2, 1
Sunshine ...	4, 4, 2	4, 3, 3	2, 4, 4	0, 6, 4	3, 2, 5	1, 4, 5	2, 5, 3	2, 5, 3	2, 6, 2	5, 3, 2	2, 6, 2	1, 4, 5

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(21699—19.) Wt. 199—789. 625. 2/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average	Earth 4 ft Mean	Earth 4 ft Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.		hr.	hr.	°/c.		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																						
a, Islands .. a Lerwick ..	54	39	7, 8	23	4th	36·4	29·3	32·9	− 4·9	2	0·21	5	− 15									
a Houton Bay	—	39	8th	26	4th	36·3	30·0	33·2	—	—	—	—	—									
a Stornoway	51	42	7, 8	25	5th	38·9	30·9	34·9	− 3·7	3	0·31	8	− 20	Deerness ..	2·4	+ 0·9	29	•	•	•	•	•	•
a Castlebay, Barra Isd.	37	—	—	—	—	—	—	—	—	—	—	—	—	Stornoway ..	1·2	− 0·4	14	•	•	•	•	•	•
														Castlebay ..	—	—	—	•	•	•	•	•	•
b, Mainland. a Wick	81	41	7, 8	17	5, 6	36·9	27·7	32·3	− 4·9	5	0·22	6	− 8	Fort Augustus..	—	—	—	•	•	•	•	•	•
a Strathpeffer	125	40	7th	14	5th	34·9	22·9	28·9	− 8·0	0	0·00	0	− 17									
p Glencarron	500	39	7th	17	4, 5	35·3	25·0	30·2	− 6·3	3	0·18	5	− 42									
a Fort Augustus..	68	39	6-8	13	4, 5	35·4	23·3	29·4	− 7·7	1	0·04	1	− 25									
p Fort William ..	171	41	7th	19	5th	37·3	28·0	32·7	− 5·5	3	0·17	4	− 43									
1. SCOTLAND, E.																						
a Nairn ..	82	40	7, 8	13	5th	35 6	23·6	29·6	− 7·7	2	0·08	2	− 10	Nairn	2·6	—	30	•	•	•	•	•	•
p Gordon Castle ..	101	39	3, 8	11	6th	35·6	24·9	30·3	− 8·0	1	0·22	6	− 6	Gordon Castle..	2·1	—	24	•	•	•	•	•	•
a Aberdeen ..	46	40	3rd	20	5, 6	36·9	27·0	32·0	− 6·0	3	0·11	3	− 10	Aberdeen ..	2·5	+ 0·1	29	4	14	•	•	39·3	+0·1
a Balmoral ..	930	37	3, 8	5	5th	33·3	21·7	27·5	− 6·7	2	0·04	1	− 16	Balmoral ..	•	•	•	7	4	•	•	•	•
p Crieff ..	432	39	3rd	22	5th	35·0	27·6	31·3	− 6·3	2	0·13	3	− 20	Crathes	3·0	+ 0·3	35	7	11	33·5	-1·8	36·7	-0·9
a Dundee ..	244	41	3rd	20	5th	36 6	27·9	32·3	− 4·9	0	0·00	0	− 12	Dundee	2·0	—	23	7	15	34·0	•	•	•
a Leith ..	30	39	3rd	30	7th	36·7	32·3	34·5	− 4·7	4	0·21	5	− 4	Leith	—	—	—	3	22	•	•	•	•
p Edinburgh ..	441	37	3rd	28	6, 8	35·4	30·1	32·8	− 5·2	3	0·07	2	− 8	Edinburgh ..	0·8	− 1·8	9	5	16	•	•	•	•
a West Linton ..	769	34	2, 6, 8	15	6th	32·7	23·6	28·2	− 6·8	2	0·08	2	—	West Linton ..	0·7	—	8	7	14	•	•	•	•
p Marchmont ..	498	41	6th	20	7, 8	35·6	25·9	30·8	− 6·1	3	0·24	6	− 7	Marchmont .	1·2	− 1·0	14	•	•	•	•	•	•
6. a, SCOTLAND, W.																						
a Ford (Argyll) ..	149	38	6, 7	30	2, 5	37·0	31·6	34·3	—	3	0·24	6	—	Ford (Argyll) ..	•	•	•	5	26	35·4	•	39·7	•
p Glasgow Observatory	180	38	4, 6	29	5th	36·7	31·4	34·1	− 4·8	2	0·05	1	− 18	Glasgow.. ..	0·0	− 1·5	0	4	28	•	•	•	•
p Rothesay ..	200	38	6-8	29	5th	36·9	32·0	34·5	− 5·2	5	0·16	4	− 23	Rothesay ..	0·7	—	8	4	28	35·9	•	40·9	-0·8
a Kilmarnock ..	90	38	6th	31	4, 8	37·0	32·4	34·7	− 3·6	1	0·03	1	− 20	Kilmarnock ..	0·6	—	7	•	•	35·4	•	40·5	—
a Colmonell ..	170	42	3rd	27	4th	38 3	32·1	35·2	− 3·5	2	0·04	1	− 25	Colmonell ..	•	•	•	2	25	•	•	•	•
p Cally, Gatehouse	120	39	6th	25	4th	37·0	31·1	34·1	− 4·4	1	0·01	0	− 27	Dumfries ..	0·6	—	7	5	22	36·3	-1·2	40·2	+0·2
p Dumfries ..	160	38	2nd	27	8th	36·3	31·0	33·7	− 4·8	1	0·05	1	− 19	Eskdalemuir ..	0·7	—	8	7	16	•	•	•	•
a Eskdalemuir ..	794	35	2, 3, 6	23	8th	33·6	27·0	30·3	—	3	0·04	1	—									
b. I. OF MAN p Douglas ..	277	40	3-7	29	3rd	39·4	34·3	36·9	− 3·7	3	0·35	9	− 13	Douglas	0·9	− 1·5	10	3	24	•	•	•	•
2. ENGLAND, N.E																						
a Alnwick Castle	210	41	3, 6	25	6-8	36·4	29·1	32·8	− 5·5	4	0·24	6	− 5									
a Tynemouth	71	41	6th	27	8th	37·0	33·0	35·0	− 3·9	3	0·51	13	+ 5	Cockle Park ..	1·7	− 0·9	19	5	20	34·0	-2·4	38·0	-1·1
p Durham ..	336	—	—	—	—	—	—	—	—	—	—	—	—	Durham ..	—	—	—	—	—	•	•	•	•
a North .. p Rounton ..	249	40	6th	23	8th	36·1	28·1	32·1	− 5·5	3	0·12	3	− 6	Rounton ..	•	•	•	7	14	35·4	•	•	•
a West Witton ..	605	39	6th	23	8th	34·3	23·0	31·7	—	2	0·06	2	—	West Witton ..	•	•	•	7	20	35·0	•	38·2	•
p Scarborough ..	100	43	6th	27	8th	39·4	32·0	35·7	− 3·6	2	0·18	5	− 5	Scarborough ..	2·0	− 0·2	22	•	•	•	•	39·5	•
p York ..	56	41	6th	24	8th	37·3	30·0	33·7	− 5·1	2	0·05	1	− 8	York	1·5	− 0·3	17	—	—	36·7	-1·3	40·5	-0·5
a Spurn Head ..	26	41	6th	29	8th	36·7	31·6	34·2	− 4·7	2	0·05	1	− 6	Spurn Head ..	1·2	—	13	•	•	•	•	•	•
b, South .. a Lincoln ..	68	41	6th	25	8th	36·3	30·3	33·3	− 5·1	2	0·06	2	− 7	Lincoln	•	•	•	6	20	34·5	-2·2	40·2	-0·1
a Fulbeck ..	180	37	6th	24	8th	34·1	28·7	31·4	− 6·8	2	0·07	2	− 7	Rauceby ..	—	—	—	•	—	—	—	•	•
														Skegness ..	2·5	− 0·2	27	•	•	•	•	•	•
3. ENGLAND, E.																						
p Cromer ..	196	40	6th	22	8th	35·9	27·9	31·9	− 6·7	1	0·02	0·4	− 7	Cromer	3·3	+ 0·7	36	•	•	•	•	•	•
a Little Massingham	280	39	6th	19	8th	34·7	26·4	30·6	− 7·6	4	0·07	2	− 8	Lit. Massingham	2·7	+ 0·5	30	•	•	•	•	•	•
a Yarmouth ..	13	42	6th	26	5, 8	37·0	29·3	33·2	− 5·1	2	0·04	1	− 8	Yarmouth ..	3·9	—	43	4	26	36·9	-1·3	43·6	+1·4
a Norwich ..	93	39	6th	21	8th	35·0	28·3	31·7	− 6·8	2	0·07	2	− 8	Norwich ..	3·1	—	34	6	19	34·1	•	•	•
a Geldeston ..	37	42	6th	22	8th	36·6	26·6	31·6	− 7·3	2	0·11	3	− 5	Geldeston ..	3·3	+ 0·9	36	•	•	•	•	•	•
p Cambridge ..	41	38	6th	20	8th	35·1	27·0	31·1	− 7·7	1	0·19	5	− 3	Cambridge ..	2·1	− 0·3	23	4	19	35·9	-2·3	41·1	-0·7
a Clacton-on-Sea ..	54	40	6th	26	8th	36·0	30·0	33·0	− 5·5	1	0·25	6	− 1	Clacton	2·6	− 0·1	28	3	20	36·4	-3·2	42·5	-0·8
a Rothamsted ..	424	35	4-7	16	8th	33·9	26·4	30·2	− 8·0	2	0·27	7	− 4	Rothamsted ..	2·4	+ 0·1	26	6	14	35·0	•	•	•
p Tottenham ..	51	36	5-7	21	8th	34·4	29·9	32·2	—	1	0·40	10	—	Tottenham ..	1·5	—	16	6	19	•	•	41·5	-1·5
4. MIDLAND COUNTIES.																						
a North .. a Barrogate	479	37	3, 4, 6	22	8th	34·9	28·9	31·9	− 5·7	2	0·11	3	− 10	Harrogate ..	1·3	− 0·9	14	6	19	35·8	-1·9	38·9	-0·6
p Sheffield ..	439	41	4th	22	8th	36·1	29·7	32·9	—	2	0·03	1	—	Sheffield.. ..	1·6	− 0·4	18	4	19	34·9	-2·4	40·3	-0·4
p Buxton ..	987	—	—	—	—	—	—	—	—	—	—	—	—	Buxton	—	—	—	—	—	—	—	—	—
a Bawtry ..	65	39	4, 6	26	8th	36·6	30·4	33·5	− 5·3	0	0·00	0	− 9	Worksop ..	1·6	− 0·2	18	5	13	35·8	•	39·3	•
a Nottingham ..	82	37	5th	22	8th	34 6	29·0	31·8	− 6·9	3	0·20	5	− 5	Nottingham ..	1·9	+ 0·1	21	5	21	33·3	-3·4	37·6	-1·5
b, East .. p Birmingham, Edgbn.	535	37	4th	21	8th	33·9	28·6	31·3	− 7·4	2	0·29	7	− 4	Birmingham ..	1·6	0·0	18	7	18	35·8	-3·5	43·1	-0·3
a Raunds ..	203	36	3, 4, 6	11	8th	34·4	26·4	30·4	− 7·6	1	0·20	5	− 4	Raunds	2·4	—	26	7	11	36·9	•	43·8	—
p Oxford ..	208	38	4th	21	8th	36·0	28·9	32·0	− 7·5	2	0·32	8	− 2	Oxford	2·3	+ 0·1	25	5	14	•	•	•	•
														Malvern	1·5	—	16	7	13	34·6	—	39·9	—
a Cheadle (N. Staffs.)	646	36	4th	19	8th	33·9	27·1	30·5	− 7·1	1	0·17	4	− 9	Cheadle	•	•	•	6	21	•	•	•	•
c, West .. p Tenbury	313	36	4th	19	8th	34·3	29·0	31·7	− 7·7	3	0·36	9	0	Tenbury	•	•	•	5	16	35·5	•	•	•
p Ross-on-Wye ..	201	37	5th	22	8th	35·0	29·4	32·2	− 7·3	4	0·33	8	− 5	Ross-on-Wye ..	1·7	—	19	3	16	—	—	•	•
a Clifton ..	228	37	4, 7	23	8th	35·0	30·6	32·8	− 7·6	3	0·48	12	− 7	Clifton	1·7	—	18	3	22	•	•	•	•
5. ENGLAND, S.E.																						
a Marlborough ..	424	42	8th	19	8th	35·6	28·6	32·1	− 6·1	3	0·42	11	− 5	Worthing	2·3	− 0·2	25	4	21	36·6	-3·5	43·0	-0·6
p Salisbury (Wilton) ..	180	39	6, 7	20	8th	35·9	28·4	32·2	− 6·5	4	0·58	15	− 3	Marlborough ..	1·7	0·0	18	4	14	36·1	•	43·4	—
a Wisley, Surrey ..	150	36	4-6	19	8th	34·1	29·3	31·7	− 7·4	2	0·31	8	− 4	Salisbury	•	•	•	4	18	36·1	•	•	•
a Tunbridge Wells ..	354	36	6th	17	8th	33·0	28·3	30·7	− 8·0	2	0·44	11	− 4	Wisley	2·0	+ 0·2	22	4	12	35·9	-2·8	41·4	-0·6
a Margate	51	39	5, 6	24	8th	36·1	30·3	33·2	− 6·6	2	0·31	8	− 1	Tunbridge Wells	1·9	− 0·2	20	5	13	37·1	+0·5	41·9	—
														Margate	2·0	− 0·1	22	5	20	36·4	-3·8	41·8	-0·8
a Dungeness ..	21	41	4th	21	8th	36·1	30·1	33·1	− 6·6	2	0·43	11	0	Folkestone ..	2·4	—	26	•	•	•	•	43·7	—
p St. Leonards ..	178	42	6th	22	8th	36·1	28·9	32·5	− 7·5	4	0·41	11	− 2	St. Leonards ..	2·9	+ 0·5	31	6	19	36·2	•	42·7	—
p Southampton ..	64	41	7th	21	8th	37·0	29·6	33·3	− 7·7	2	0·50	13	− 2	Southampton ..	1·8	− 0·4	19	3	16	•	•	•	•
a Ventnor	59	42	4, 6	20	8th	38·4	32·3	35·4	− 6·5	2	0·60	13	− 1	Ventnor	2·1	− 0·4	23	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	37	4, 6	22	8th	35·1	30·4	32·8	− 7·0	2	0·39	10	0	Richmond ..	1·4	− 0·3	15	6	18	35·1	-3·4	41·7	-1·1
a Westminster ..	27	39	6th	22	8th	35·7	30·9	33·3	− 7·1	2	0·34	9	− 1	Westminster ..	1·2	+ 0·1	13	6	20	•	•	•	•
ag Greenwich ..	149	36	5, 6	18	8th	34·0	29·0	31·5	− 7·8	2	0·30	8	− 1	Greenwich ..	2·2	+ 0·4	24	6	15	•	•	•	•
a Hampstead ..	450	—	—	—	—	—	—	—	—	—	—	—	—	Hampstead ..	—	—	—	—	—	•	•	•	•
ag Camden Square ..	110	37	5, 6	21	8th	35·1	29·4	32·3	− 7·4	2	0·42	11	0	Camden Square	0·7	− 0·7	8	6	16	•	•	•	•
7. a, ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	38	6th	26	8th	36·1	31·0	33·6	− 4·8	1	0·02	1	− 20	Aspatria.. ..	0·6	− 1·4	7	7	22	36·3	-2·8	40·9	-1·7
p Newton Rigg ..	559	37	3, 6	23	8th	35·0	29·7	32·4	− 4·6	1	0·02	0·4	− 22	Newton Rigg ..	1·1	− 0·8	12	7	20	35·9	-1·7	39·3	-0·5
p Stonyhurst ..	375	37	6th	24	8th	35·0	30·9	33·0	− 5·3	1	0·03	1	− 24	Stonyhurst ..	0·9	− 0·9	10	4	19	•	•	•	•
p Blackpool ..	66	40	6th	26	8th	37·3	31·6	34·5	− 4·6	2	0·05	1	− 14	Blackpool ..	0·6	− 1·6	7	6	17	37·4	•	42·7	—
a Southport ..	37	41	6th	26	8th	37·4	31·3	34·4	− 4·9	0	0·00	0·1	− 15	Southport ..	1·2	− 1·0	13	6	23	34·1	-2·7	38·7	-0·9
														Hoylake ..	0·9	− 1·1	10	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	38	6th	24	8th	35·9	31·3	33·6	− 6·1	2	0·05	1	− 11	Liverpool ..	1·2	—	13	5	21	•	•	•	•
a Hawarden Bridge ..	22	38	3-6	25	8th	37·3	32·1	34·7	− 5·7	2	0·14	4	− 6	Manchester(City)	0·5	− 0·5	6	4	25	34·4	-3·2	40·8	-1·2
p Manchester (Whit. Pk.)	120	39	4, 6	23	8th	36·9	30·0	33·5	− 6·4	1	0·03	1	− 13	Whitworth Park	1·5	+ 0·3	17	•	•	•	•	•	•
b. NORTH WALES.																						
p Llandudno ..	16	41	6th	27	8th	38·4	32·3	35·4	− 6·2	2	0·12	3	− 13	Llandudno ..	1·3	− 0·8	14	•	•	•	•	•	•
a Holyhead ..	15	43	6th	32	2, 8	40·3	34·1	37·2	− 4·4	3	0·35	9	− 9	Holyhead ..	1·2	—	13	2	27	•	•	•	•
a Beddgelert ..	309	39	4-7	24	8th	37·6	30·3	34·0	− 6·1	2	0·27	7	—	Aberdovey ..	—	—	—	•	•	•	•	•	•
a Aberdovey ..	22	—	—	—	—	—	—	—	—	—	—	—	—									

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average	Earth 4 ft. Mean.	Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		mm.	mm.		hr.		%		°F.	°F.	°F.	°F.	°F.
8. *a.* SOUTH WALES.																						
a Aberystwyth	59	41	6th	26	8th	38·0	31·6	34·8	—	3	0·36	9	—	Aberystwyth ..	1·5	− 0·6	16	•	•	•	•	•
a Rhayader	757	35	4,7	19	8th	33·1	28·0	30·6	—	5	0·60	15	—	Rhayader ..	1·2	—	13	5	16	•	•	•
a St. Ann's Head ..	149	43	4th	32	2,8	40·0	35·0	37·5	− 4·9	4	0·71	18	0	St. Ann's Head ..	0·9	− 1·3	10	•	•	•	•	•
p Cardiff	202	38	7th	22	8th	35·4	29·4	32·4	− 7·4	3	0·84	21	+ 2	Cardiff	1·6	—	17	7	17	35·7	−3·7	42·3	−0·3
b. ENGLAND, S.W.																						
a Bath	66	39	4,7	22	8th	35·6	30·6	33·1	− 7·0	3	0·59	15	+ 1	Bath	•	•	•	•	•	37·4	−1·5	42·8	−0·1
a Shaftesbury	722	43	7th	19	8th	34·7	27·1	30·9	− 7·5	3	0·61	16	+ 1	Shaftesbury ..	•	•	•	•	•	34·0	•	40·4	•
a Arlington	613	43	5th	25	8th	38·3	31·0	34·7	− 4·8	3	0·73	19	− 7										
a Hartland Quay ..	100	—	—	—	—	—	—	—	—	—	—	—	—										
a Newquay	190	50	5th	29	2nd	43·4	34·9	39·2	− 4·0	3	1·73	44	+ 27	Newquay ..	1·6	− 0·7	17	5	25	40·8	•	45·4	•
a Cullompton	202	43	4,5	26	8th	39·0	31·1	35·1	− 5·3	3	1·02	26	+ 8	Cullompton ..	1·3	− 0·7	14	4	21	38·5	•	•	•
a Portland Bill	19	45	4,5	29	2nd	40·7	34·3	37·5	− 4·6	3	0·98	25	+ 12	Weymouth ..	—	—	—	•	•	•	•	•	•
p Plymouth	116	51	5th	32	2,3,8	42·6	34·9	38·8	− 3·6	3	2·38	60	+ 41	Plymouth ..	1·6	− 0·7	17	4	29	38·6	−3·1	44·3	•
a Falmouth	167	52	5,6	30	2nd	45·0	36·6	40·8	− 2·6	3	2·19	56	+ 32	Falmouth ..	1·3	− 1·1	14	2	27	41·0	•	44·2	•
9. IRELAND, N.																						
a West .. { *a* Malin Head	208	46	8th	33	4th	41·0	34·6	37·8	− 2·8	3	0·17	4	− 12	Malin Head ..	1·7	—	20	•	•	•	•	•	•
a Blacksod Point ..	327	48	7th	32	2nd	43·1	34·3	38·7	− 3·5	3	0·53	13	− 14	Markree Castle	1·8	− 0·2	20	2	30	39·7	−0·8	43·2	−0·4
p Markree Castle ..	122	51	7th	33	8th	43·7	35·6	39·7	− 0·2	3	0·50	13	− 10										
b East .. { *p* Armagh	196	45	7th	34	3,8	41·0	36·3	38·7	− 1·0	2	0·38	10	− 5	Armagh	1·0	− 1·0	11	2	29	39·1	−0·7	42·5	−0·2
a Donaghadee	101	41	4-7	31	4th	40·4	34·7	37·6	− 3·0	3	0·20	5	− 10										
10. IRELAND, S.																						
p Dublin, City	47	44	6,7	33	4th	41·9	36·4	39·2	− 3·0	4	0·64	16	+ 3	Trinity Coll. ..	•	•	•	2	21	40·1	−0·7	43·2	−0·2
a Birr Castle	175	—	—	—	—	—	—	—	—	—	—	—	—	Phœnix Park ..	1·0	− 1·3	11	2	22	•	•	•	•
a Kilkenny	212	47	6th	33	2,8	42·7	36·3	39·5	− 1·3	4	1·17	30	+ 13	Dublin City ..	•	•	•	1	29	•	•	•	•
a Waterford	120	47	6th	34	2nd	43·3	37·4	40·4	− 1·8	4	1·97	50	+ 28	Birr Castle ..	—	—	—	—	—	•	•	•	•
p Seskin, Carrick-on-Suir	541	46	6th	32	3rd	41·9	35·9	38·9	—	4	1·69	43	—	Seskin	0·8	—	9	1	30	•	•	•	•
a Cahir	199	49	7th	28	3rd	44·3	35·3	39·8	− 1·2	4	1·54	39											
a Foynes	50	49	5,7	32	3rd	45·6	37·0	41·3	− 1·0	5	0·85	22	+ 1										
a Cahirciveen (Val. Obs.)	30	53	7th	37	2nd	48·9	41·7	45·3	+ 1·0	5	1·13	29	− 5	Cahirciveen ..	2·1	− 0·1	23	0	37	•	•	•	•
a Killarney	174	56	7th	35	2nd	48·2	39·5	43·9	+ 1·1	5	0·89	23	− 12	Ballinacurra ..	1·9	− 0·5	20	•	•	•	•	•	•
a Roche's Point	32	51	7th	37	2,3	46·3	39·9	43·1	− 0·4	4	1·46	37	+ 12										
11. ENGLISH CHANNEL.																						
a Scilly, St. Mary's ..	131	51	5,6	33	2nd	47·3	40·3	43·8	− 1·3	4	1·50	38	+ 22	Scilly	1·5	− 0·9	16	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	50	5th	26	8th	43·0	33·7	38·4	− 4·3	5	2·09	53	+ 38	St. Heliers ..	1·9	− 0·8	20	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	50	5th	28	8th	43·0	35·7	39·4	− 3·9	5	1·74	44	+ 28	Guernsey† ..	1·6	− 0·9	17	2	25	40·8	−1·9	45·2	−0·2

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, February 8th, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	6, 7	23	31	84	30	0	157	15	7	7	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	7	60	101	0	—	6	7	11	14	6	23	40
Aberdeen	153	105	52	—	—	—	—	27	95	46	0	169	9	7	6	17	7	6	45
Edinburgh	485	39	31	—	—	—	—	24	95	49	0	157	11	7	6	14	7	1	40
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	—	—	18	108	42	0	40	8	5	19	12	5	18	45
Paisley	188	81	15	—	—	—	—	—	102	66	0	79	5	5	15	11	5	8	5
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	13	67	88	0	180	8	8	10	13	8	9	40
South Shields	72	61	12	—	—	—	—	37	93	38	0	180	10	7	5	15	6	23	25
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	5 to 7	24	59	62	23	0	67	15	7	3	—	—	—	—
Gorleston	52	42	‡	—	—	6,7	14	67	60	10	17	67	13	7	6	16	7	5	35
Shoeburyness	103	90	‡	—	—	6, 7	18	49	53	5	43	90	15	7	6	19	7	6	15
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	25	71	70	2	70	7	7	4	11	7	2	45
5. ENGLAND, S.E.																			
Warlingham	642	33	‡	—	Instrument out of action.			—	—	—	—	—	—	—	—	—	—	—	—
Brighton	261	53	6	—	—	—	—	53	82	33	0	—	9	5	10	15	7	1	50
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	6	75	87	0	79	7	7	10	13	7	10	15
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	—	70	98	0	79	5	7	1	8	6	15	10
Fleetwood (Cup Anr.) ..	109	44	—	—	—	—	—	50	102	16	0	135	8	8	17	—	—	—	—
Southport	80	62	48	—	—	—	—	76	90	2	0	146	10	8	10	16	8	10	0
Holyhead	60	40	‡	—	—	—	—	26	136	6	0	90	8	2	11	10	2	10	45
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	8	3	4 to 8	51	49	46	19	0	113	18	8	23	22	8	22	15
Plymouth	185	88	2	—	—	4, 5, 8	12	45	66	45	0	—	13	4	19	17	4	19	35
Lyme Regis	556	61	‡	—	—	4,5	6	32	47	67	16	—	13	5	1	16	4	23	5
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	2	3	2,5	8	93	56	8	0	236	19	2	5	—	—	—	—
Quilty	100	40	—	—	—	7,8	24	87	42	15	0	—	15	8	6	21	8	15	15
Cahirciveen (Val. Obs.)	98	41	—	—	—	8	13	81	65	9	0	135	15	8	13	28	8	13	55
Weaver Pt.	160	30	—	—	—	2, 4, 7, 8	32	60	64	12	0	—	15	8	18	20	8	23	5
1. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	4, 5, 7, 8	39	59	61	9	0	135	16	8	20	23	8	20	0

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.] Standard mounting.] § Direction from the Robinson Anemometer at Falmouth Observatory.

* Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

SIXTH WEEK of 1919—February 2nd to February 8th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	42	13	75·4	70·1	72·8	− 3·3	0	− 5	73	+ 34	3	− 2	0·16	4	− 25	1·8	+0·4	17	1017
Eastern.																			
1. SCOTLAND, EAST ..	41	5	74·8	69·6	72·2	− 3·6	0	− 7	81	+ 37	2	− 2	0·14	4	− 10	2·0	−0·4	23	1018
2. ENGLAND, N.E.	43	23	75·6	72·1	73·8	− 2·8	0	− 10	60	+ 25	3	− 1	0·16	4	− 5	1·9	−0·4	21	1018
3. ENGLAND, EAST ...	42	16	74·9	70·8	72·8	− 3·9	0	− 10	72	+ 38	2	− 2	0·16	4	− 5	2·7	+0·3	30	1019
4. MIDLAND COUNTIES ...	39	11	74·6	71·2	72·9	− 3·8	0	− 11	71	+ 34	2	− 2	0·25	6	− 6	1·7	−0·4	19	1018
5. ENGLAND, S.E.	42	17	75·1	71·7	73·4	− 3·9	0	− 13	65	+ 36	3	− 1	0·43	11	− 3	2·1	−0·1	22	1018
Western.																			
6. SCOTLAND, WEST ...	42	25	75·9	73·0	74·5	− 2·4	0	− 9	51	+ 20	2	− 3	0·12	3	− 23	0·5	−1·5	5	1018
7. ENGLAND, N.W.	43	23	75·7	72·7	74·2	− 3·0	0	− 10	55	+ 27	2	− 2	0·09	2	− 15	1·0	−1·0	11	1017
8. ENGLAND, S.W.	52	19	76·6	72·9	74·7	− 3·3	0	− 15	48	+ 25	3	− 1	1·07	27	+ 7	1·3	−0·8	14	1016
9. IRELAND, NORTH ...	51	31	78·4	74·7	76·6	− 1·1	0	− 14	25	+ 1	3	− 2	0·36	9	− 11	1·4	−0·6	16	1014
10. IRELAND, SOUTH ...	56	28	80·3	76·3	78·3	− 0·4	9	− 11	17	− 2	4	− 1	1·21	31	+ 8	1·7	−0·5	18	1012
11. ENGLISH CHANNEL ...	51	26	79·9	75·6	77·7	− 1·9	7	− 16	21	+ 11	5	+ 1	1·78	45	+ 29	1·7	−0·9	18	1015

THE SEASON (Winter).—Aggregates, &c., for the Period of 10 Weeks, December 1st, 1918, to February 8th, 1919.

0. SCOTLAND, NORTH ..	59	13	78·7	74·0	76·4	− 0·2	69	− 4	346	+ 14	47	− 6	9·68	247	− 89	1·0	+0·2	15	1004
Eastern.																			
1. SCOTLAND, EAST ..	59	5	78·2	73·2	75·8	− 0·2	66	− 4	410	+ 11	45	+ 4	6·17	157	− 1	1·3	−0·1	18	1005
2. ENGLAND, N.E.	60	23	79·2	74·7	77·0	+ 0·3	98	+ 11	309	− 16	49	+11	6·59	168	+ 56	1·3	−0·1	16	1007
3. ENGLAND, EAST ..	59	16	79·7	74·8	77·4	+ 0·7	132	+ 36	321	− 25	51	+10	6·00	153	+ 40	1·2	−0·5	15	1010
4. MIDLAND COUNTIES ...	59	11	79·7	74·7	77·3	+ 0·7	133	+ 27	324	− 38	50	+ 9	7·05	180	+ 45	1·2	−0·2	15	1009
5. ENGLAND, S.E.	59	17	80·5	75·8	78·2	+ 0·6	202	+ 62	249	− 16	53	+14	7·35	187	+ 38	1·3	−0·4	15	1011
Western.																			
6. SCOTLAND, WEST ...	57	14	79·4	75·3	77·5	+ 0·2	99	− 7	254	− 8	53	+ 5	11·61	295	+ 11	1·1	−0·1	14	1007
7. ENGLAND, N.W.	58	23	80·0	75·7	77·9	+ 0·4	132	+ 21	240	− 19	51	+ 8	9·40	237	+ 49	1·1	−0·2	15	1007
8. ENGLAND, S.W.	59	19	80·9	76·4	78·7	+ 0·3	219	+ 44	188	− 7	54	+ 9	12·48	313	+ 80	1·6	0·0	20	1010
9. IRELAND, NORTH ...	60	23	80·7	76·1	78·5	+ 0·6	168	+ 32	186	− 40	55	+ 4	9·26	233	+ 21	1·6	+0·2	21	1004
10. IRELAND, SOUTH ...	60	23	81·7	76·6	79·2	+ 0·4	238	+ 29	155	− 20	54	+ 5	11·75	299	+ 60	1·9	+0·2	23	1007
11. ENGLISH CHANNEL ...	57	26	82·5	78·9	80·7	+ 0·5	327	+ 48	54	− 15	57	+ 7	12·12	308	+108	1·7	−0·3	20	1012

THE YEAR 1919.—Aggregates, &c., for the Period of 6 Weeks, December 29th, 1918, to February 8th, 1919.

0. SCOTLAND, NORTH ...	50	13	77·5	72·8	75·3	− 1·0	4	− 34	262	+ 48	25	− 6	4·41	113	− 83	1·2	+0·2	16	1006
Eastern.																			
1. SCOTLAND, EAST ...	51	5	77·0	72·1	74·6	− 1·3	0	− 39	300	+ 50	27	+ 3	4·11	105	+ 18	1·3	−0·3	17	1007
2. ENGLAND, N.E.	53	23	77·6	73·5	75·6	− 0·9	7	− 42	244	+ 36	30	+ 8	4·12	106	+ 46	1·3	−0·3	16	1008
3. ENGLAND, EAST ...	55	16	77·8	73·3	75·7	− 0·7	24	− 27	265	+ 42	28	+ 4	3·32	84	+ 23	1·3	−0·6	15	1010
4. MIDLAND COUNTIES ...	56	11	77·6	73·2	75·5	− 0·9	18	− 40	266	+ 37	27	+ 3	4·02	102	+ 29	1·3	−0·3	16	1009
5. ENGLAND, S.E.	55	17	78·6	74·1	76·4	− 0·8	55	− 16	212	+ 36	30	+ 7	5·07	129	+ 52	1·3	−0·5	15	1010
Western.																			
6. SCOTLAND, WEST ...	51	14	78·2	74·2	76·3	− 0·8	10	− 46	194	+ 24	28	− 1	5·82	148	− 7	1·2	−0·1	15	1007
7. ENGLAND, N.W.	54	23	78·3	74·3	76·4	− 0·8	15	− 43	195	+ 28	29	+ 4	4·02	100	− 3	1·3	−0·2	13	1007
8. ENGLAND, S.W.	56	19	79·2	74·7	77·0	− 1·0	55	− 37	171	+ 38	30	+ 4	6·88	175	+ 53	1·9	+0·1	22	1009
9. IRELAND, NORTH ...	52	23	79·4	75·0	77·2	− 0·6	37	− 41	148	+ 4	31	+ 1	4·72	119	0	1·7	+0·2	21	1005
10. IRELAND, SOUTH ...	56	23	80·3	75·4	77·9	− 0·7	70	− 48	132	+ 19	31	+ 2	6·19	158	+ 27	2·0	+0·2	25	1007
11. ENGLISH CHANNEL ...	56	26	81·1	77·4	79·3	− 0·3	111	− 33	54	+ 2	33	+ 4	8·18	207	+106	1·9	−0·3	21	1010
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: COL. H. G. LYONS, R.E., F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: February 14th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1: 37, PETER STREET MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 7.

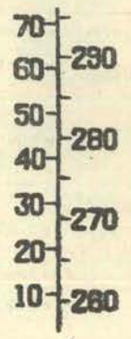
THE SEVENTH WEEK OF 1919.

SUNDAY, FEBRUARY 9TH, TO SATURDAY, FEBRUARY 15TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

Anticyclonic conditions prevailed over the British Isles during the greater part of the week, but on the last day or two the high pressure system was receding over the Continent as a depression approached our western coasts. The weather was very fine and cold during the first four days, but became unsettled by Thursday in the west, and the change gradually spread eastwards, with higher temperatures. The mean temperature was again (for the fourth week) well below the normal over the country generally, the greatest deficit, 5 a., being shown in the Midland Counties and the smallest, about 1 a., in Ireland. At individual stations the greatest divergencies were 6 a. at Cambridge and Rothamsted, and nearly 8 a. at Raunds. From Sunday to Wednesday temperature was very low over England, maxima below the freezing point being very common, the highest point reached at Bath up to and including Wednesday being 271 a. Minima below 266 a. occurred in most parts of Great Britain, mostly on the 9th and 10th, the lowest readings being, in Scotland, 258 a. at West Linton, and in England, 262 a. at several places in England E. and the East Midlands, the actual lowest being 260 a. at Raunds; at Hemel Hempstead the grass thermometer went down to zero (on the 9th). During the later days of the period temperature rose rather fitfully, and readings above 283 a. were recorded over the Western Districts generally. Rain-days and total rainfall were everywhere below normal. Bright sunshine was considerable except in Scotland W.; over England S.E. the daily mean, 4·9 hours, was 2·1 hour in excess of the normal; at St. Leonards-on-Sea the daily mean for the first four days was 8·5 hours. A Solar halo was seen at Oxford on the 13th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	8	2·5	5	1·0	—	—	14	1·6	12	1·9	27	7·7	27	4·2	27	2·9
North	10	2·4	4	1·8	—	—	0	—	0	—	1	2·2	0	—	0	—
West	9	2·6	6	2·4	—	—	0	—	0	—	2	3·8	0	—	0	—
East	10	3·0	8	2·7	—	—	16	3·2	20	5·2	26	10·0	25	3·6	28	7·9
Calm	7	—	14	—	—	—	12	—	8	—	0	—	1	—	0	—

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.												
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with normal for the time of year ... Warmth ...	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient	Deficient	Deficient	Deficient	Moderate	Moderate	Deficient
Rainfall ...	Light	Moderate	Light	Very light	Light	Very light	Light	Light	Light	Light	Light	Moderate
Sunshine ...	Abundant	Moderate	Moderate	Abundant	Abundant	Very abundant	Moderate	Abundant	Abundant	Abundant	Abundant	Abundant

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

WINTER. 11 weeks from Dec. 1st, 1918. Warmth ...	2, 4, 5	2, 5, 4	2, 5, 4	4, 3, 4	2, 5, 4	5, 2, 4	2, 6, 3	2, 6, 3	3, 4, 4	3, 7, 1	2, 6, 3	4, 3, 4
Rainfall ...	1, 6, 4	3, 6, 2	5, 3, 3	6, 3, 2	5, 4, 2	3, 6, 2	3, 5, 3	5, 3, 3	7, 2, 2	5, 3, 3	6, 3, 2	7, 3, 1
Sunshine ...	5, 4, 2	4, 4, 3	2, 5, 4	1, 6, 4	4, 2, 5	2, 4, 5	2, 6, 3	3, 5, 3	3, 6, 2	6, 3, 2	3, 6, 2	2, 4, 5

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{5}{9}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(21841–19.) Wt. 199—789. 625. 2/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.			Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft Mean.	Earth 4 ft Deviation from Average.
		Deviation from Normal.								in	mm											
	Ft.	°F.		°F		°F.	°F.	°F	°F.			mm.		hr.	hr.	%		°F.	°F.	°.	°F.	°F.
0. SCOTLAND, N.																						
a, Islands .. a Lerwick ..	468	42	9, 10, 13	29	15th	39·4	35·3	37 4	+ 1·0	0	0·00	0	- 21									
a Houton Bay	—	44	9th	31	15th	40·7	34·6	37·7	—	—	—	—		Deerness ..	2·7	+ 0·6	30	•	•	•	•	•	•
a Stornoway	51	47	11th	29	12, 13	43·1	32·6	37·9	- 0·8	3	0·12	3	- 27	Stornoway ..	3·1	+ 0·8	34	•	•	•	•	•	•
a Castlebay, Barra Isd.	37	46	11th	39	9–12	44·0	39·4	41·7	—	1	0·12	3	—	Castlebay ..	2·7	—	30	•	•	•	•	•	•
b, Mainland. a Wick	81	44	9, 10	24	11, 12	41·4	28·0	34·7	- 2·7	3	0·06	2	- 14	Fort Augustus..	—	—	—	•	•	•	•	•	•
a Strathpeffer	125	42	14th	19	11th	36·0	24·0	30·0	- 7·2	1	0·57	15	- 3									
p Glencarron	600	39	9th	19	13th	37·4	25·3	31·4	- 5·3	3	0·11	3	- 48									
a Fort Augustus..	68	46	14th	12	10th	39·6	21·7	30 7	- 6·6	3	0·16	4	- 24									
p Fort William	171	44	11th	19	10th	39·4	26·4	32·9	- 5·6	1	0·05	1	- 49									
1. SCOTLAND, E.																						
a Nairn	82	42	15th	18	13th	38·0	22·4	30·2	- 7·5	2	0·28	7	- 4	Nairn ..	4·8	—	53	•	•	•	•	•	•
p Gordon Castle	101	45	14th	20	11th	42·0	26·4	34·2	- 4·5	2	0·32	8	- 4	Gordon Castle..	5·3	—	58	•	•	•	•	•	•
a Aberdeen	46	44	9th	25	10, 11, 14	40·7	27·7	34·2	- 4·2	2	0·05	1	- 12	Aberdeen ..	2·7	- 0·1	30	6	16	•	•	38·6	-0·7
a Balmoral	930	42	11, 13, 14	12	13th	39·4	20·1	29·8	- 4·7	2	0·45	11	- 6	Balmoral ..	•	•	•	7	9	•	•	•	•
p Crieff	432	43	10th	22	10th	38·1	26·7	32·4	- 5·7	1	0·24	6	- 15	Crathes ..	3·9	+ 0·9	43	7	10	33·0	- 2·6	36·4	-1·2
a Dundee	244	44	10th	20	10th	38 7	25·3	32 0	- 5·6	1	0·23	6	- 6	Dundee ..	2·5	—	27	6	14	33·0	•	•	•
a Leith	30	40	11, 12, 15	23	10th	39·0	27·1	33·1	- 6·5	3	0·56	14	+ 5	Leith ..	—	—	—	6	16	•	•	•	•
p Edinburgh	441	44	14th	23	9, 13	39·1	29·0	34·1	- 4·3	3	0·54	14	+ 4	Edinburgh ..	2·8	- 0·2	30	6	16	•	•	•	•
a West Linton	769	40	14th	5	10th	37·0	17·0	27·0	- 8·5	2	0·29	7	—	West Linton ..	3·2	—	34	7	6	•	•	•	•
p Marchmont	498	47	14th	18	9th	40·6	28·9	34·8	- 2·5	3	0·40	10	- 3	Marchmont .	2·2	- 0·4	24	•	•	•	•	•	•
6. a, SCOTLAND, W																						
a Ford (Argyll)	149	51	11th	21	10th	42·8	27·9	35·4	—	2	0·06	1	—	Ford (Argyll) ..	•	•	•	5	10	34·3	•	39·2	•
p Glasgow Observatory	180	38	10-12, 14	21	10th	37·1	29·1	33·1	- 6·1	3	0·44	11	- 9	Glasgow.. ..	0·5	- 1·1	5	5	14	•	•	•	•
p Rothesay	200	44	14th	26	10th	39·7	32·3	36·0	- 4·0	3	0·18	5	- 23	Rothesay ..	3·9	—	42	6	19	35·0	•	40·1	-1·7
a Kilmarnock	90	47	14th	20	10th	41·9	25·6	33·8	- 4·9	2	0·20	5	- 16	Kilmarnock ..	4·4	—	47	•	•	34·6	•	40·2	—
a Colmonell	170	54	11th	21	10th	45·0	26·7	35·9	- 3·0	0	0·00	0	- 26	Colmonell ..	•	•	•	6	19	•	•	•	•
p Cally, Gatehouse	120	46	14th	18	10th	42·0	27·0	34·5	- 4·4	2	0·30	8	- 20	Dumfries ..	3·6	—	38	7	10	34·8	-3·5	39·6	-0·6
p Dumfries	160	50	14th	18	9th	41·7	26·1	33·9	- 5·0	2	0·44	11	- 10	Eskdalemuir ..	3·4	—	37	?	?	•	•	•	•
a Eskdalemuir	794	45	14th	13	9, 10	38·4	19·6	29·0	—	2	0·16	4	—										
b, I. OF MAN p Douglas	277	43	11, 14	32	9, 10	40·9	34·6	37·8	- 3·0	4	0·29	7	- 16	Douglas ..	3·2	+ 0·6	34	5	27	•	•	•	•
2. ENGLAND, N.E																						
a Alnwick Castle	210	45	13, 14	18	10th	41·3	23·4	32·4	- 6·2	1	0·31	8	- 4									
a Tynemouth	71	44	10th	21	9, 10	40·7	26·9	33·8	- 5·4	1	0·08	2	- 7	Cockle Park ..	3·0	+ 0·1	32	6	13	32·8	- 4·1	37·4	-1·8
p Durham	336	42	13, 14	11	11th	39·0	22·4	30·7	- 7·3	2	0·24	6	- 2	Durham ..	2·7	+ 0·2	29	6	6	•	•	•	•
a North .. p Rounton	249	42	12th	16	10th	39·1	25·0	32·1	- 5·9	2	0·09	2	- 8	Rounton ..	•	•	•	6	9	33·9	•	•	•
a West Witton	605	43	13th	15	9th	38·1	22·9	31·0	—	1	0·28	7	—	West Witton ..	•	•	•	7	12	34·1	•	37·9	•
p Scarborough	100	44	15th	28	9, 10	40·6	33·1	36·9	- 2·8	3	0·14	4	- 7	Scarborough† ..	2·8	+ 0·3	30	•	•	•	•	39·5	•
p York	56	43	12th	18	10th	39·3	26·1	32·7	- 6·5	1	0·10	3	- 6	York	1·0	- 1·1	11	—	—	35·0	- 3·5	39 9	-1·0
b, South .. a Spurn Head	26	41	12th	25	9, 11	38·9	29·1	34·0	- 5·2	1	0·04	1	- 7	Spurn Head ..	3·1	—	33	•	•	•	•	•	•
a Lincoln	58	42	12, 13	20	9, 10	39·1	25·7	32·4	- 6·5	1	0·08	2	- 7	Lincoln	•	•	•	7	14	33·1	- 4·2	39·5	-0·7
a Fulbeck	180	43	13th	12	9th	38·4	22·6	30·5	- 8·3	2	0·06	2	- 7	Fulbeck ..	3·5	—	36	•	•	—	—	•	•
														Skegness ..	4·2	+ 1·2	44	•	•	•	•	•	•
3. ENGLAND, E.																						
p Cromer	196	48	15th	23	9th	42·1	28·6	35·4	- 3·4	1	0·02	1	- 8	Cromer	4·6	+ 1·8	48	•	•	•	•	•	•
a Little Massingham	280	45	13th	18	9, 10	40·4	23·3	31·9	- 6·5	3	0·04	1	- 12	Lit. Massingham	4·0	+ 1·6	42	•	•	•	•	•	•
a Yarmouth	13	43	11th	24	12th	40·1	27·7	33·9	- 4·5	1	0·02	1	- 10	Yarmouth ..	4·8	—	50	7	17	34·6	- 4·4	41·7	-0·6
a Norwich	93	44	15th	12	9th	39·7	21·7	30·7	- 8·0	1	0·01	0	- 12	Norwich ..	4·4	—	46	7	14	33·0	•	•	•
a Geldeston	37	45	15th	15	9th	40 3	20 9	30·6	- 8·5	3	0·03	1	- 9	Geldeston ..	4·0	+ 1·4	42	•	•	•	•	•	•
p Cambridge	41	44	14th	19	9th	38·9	17·4	28·2	-10·8	0	0·00	0	- 9	Cambridge ..	2·1	- 0·5	22	7	14	34·6	- 4·4	40·5	-1·4
a Clacton-on-Sea	54	43	14th	26	12, 13	39·7	29·4	34·6	- 4·0	2	0·03	1	- 8	Clacton	4·8	+ 1·9	50	7	21	35·0	- 5·3	41·4	-1·9
a Rothamsted	424	41	14th	10	13th	36·0	18·0	27·0	-11·4	2	0·04	1	- 12	Rothamsted ..	3·4	+ 0·9	35	7	12	33·8	•	•	•
p Tottenham	51	45	15th	16	9th	39·7	26·0	32·9	—	1	0·11	3	—	Tottenham ..	2·2	—	23	6	14	•	•	40·5	-2·6
4. MIDLAND COUNTIES.																						
a North .. a Harrogate	479	42	12th	13	9th	36·6	23·6	30·1	- 7·6	1	0·18	5	- 9	Harrogate ..	1·4	- 1·2	15	6	9	34·7	- 3·4	38·1	-1·5
p Sheffield	429	45	13th	18	9th	39·3	26·7	33·0	—	1	0·19	5	—	Sheffield.. ..	2·1	- 0·2	22	7	12	33·7	- 4·1	39·7	-0·9
p Buxton	987	—	—	—	—	—	—	—	—	—	—	—	—	Buxton	—	—	—	—	—	—	—	—	—
b, East .. a Bawtry	65	45	12th	14	9th	40·7	23·0	31·9	- 7·2	1	0·15	4	- 5	Worksop ..	3·7	+ 1·6	39	7	7	34·3	•	38·9	•
a Nottingham	82	44	13th	15	9th	38·4	19·6	29·0	- 9·9	3	0·03	1	- 9	Nottingham ..	3·0	+ 0·8	31	7	15	32·3	- 6·0	36·8	-2·3
p Birmingham, Edgbsn.	535	42	13th	17	9th	36·6	25·0	30·8	- 8·1	2	0·19	5	- 6	Birmingham ..	2·4	+ 0·6	25	6	10	34·3	- 5·6	42·6	-0·8
a Raunds	203	38	15th	9	9th	33·9	15·0	24·5	-13·8	1	0·04	1	- 9	Raunds	1·8	—	19	7	5	35·6	•	42·9	—
a Oxford	208	45	14th	16	9, 13	38·1	21·9	30·0	- 9·7	2	0·03	1	- 10	Oxford	4·8	+ 2·3	49	6	8	•	•	•	•
														Malvern ..	4·7	—	48	6	11	33·5	—	39·2	—
c, West .. a Cheadle (N. Staffs.)	646	40	11, 13	16	9th	37·4	24·1	30·8	- 7·0	1	0·05	1	- 13	Cheadle	•	•	•	7	13	•	•	•	•
p Tenbury	313	44	13th	15	9th	37·0	21·1	29·1	-10·4	2	0·08	2	- 7	Tenbury	•	•	•	6	12	33·8	•	•	•
p Ross-on-Wye	201	43	13th	19	9, 12	38·0	24·3	31·2	- 8·5	2	0·02	1	- 12	Ross-on-Wye ..	4·4	—	45	6	13	—	—	•	•
a Clifton	228	42	13th	20	9th	37·9	25·6	31·8	- 8·7	2	0·10	3	- 16	Clifton	4·7	—	48	6	19	•	•	•	•
5. ENGLAND, S.E																						
a Marlborough	424	43	13, 14	17	9, 12	38·7	23·9	31·3	- 7·3	3	0·04	1	- 16	Worthing ..	5·7	+ 2·5	59	5	22	34·4	- 6·4	42·2	-1·4
p Salisbury (Wilton)	180	44	13th	18	9th	40·0	24·8	32·4	- 6·8	2	0 06	2	- 17	Marlborough ..	4·0	+ 1·8	41	7	10	34·9	•	42·9	—
a Wisley, Surrey	150	46	14th	16	9th	40·9	22·0	31·5	- 8·0	1	0 02	1	- 11	Salisbury ..	•	•	•	6	14	34·6	•	•	•
a Tunbridge Wells	354	48	14th	18	9th	40·1	25·4	32·8	- 6·3	1	0·03	1	- 15	Wisley	4·4	+ 2·0	45	7	6	34·3	- 5·2	40·3	-1·8
a Margate	51	47	14th	26	9th	41·1	30·3	35·7	- 4·5	1	0·01	0·2	- 10	Tunbridge Wells	5·8	+ 3·1	60	6	12	35·6	- 1·8	40·9	—
														Margate	5·1	+ 2·4	53	7	18	34·3	- 6·5	40·5	- 2·2
a Dungeness	21	46	15th	24	9th	39·9	30·7	35·3	- 4·7	2	0·05	1	- 10	Folkestone ..	5·1	—	53	•	•	•	•	42·4	—
p St. Leonards	178	46	14th	27	9, 10	40·0	32·0	36·0	- 4·4	2	0·04	1	- 13	St. Leonards ..	6·2	+ 3·1	64	7	23	34·5	•	41·6	—
p Southampton	64	46	13, 14	22	9th	41·7	28·4	35·1	- 6·3	3	0·07	2	- 14	Southampton ..	5·0	+ 2·2	52	5	14	•	•	•	•
a Ventnor	59	47	13, 14	31	9th	42·4	35·3	38·9	- 3·3	3	0·14	4	- 10	Ventnor	4·7	+ 1·5	49	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	45	15th	21	9, 10, 13	40·2	24·0	32·1	- 8·1	1	0·04	1	- 10	Richmond ..	2·5	+ 0·3	26	7	11	33·6	- 5·8	40·8	- 2·0
a Westminster	27	46	13, 14, 15	21	9th	41·5	26·9	34·2	- 6·6	1	0·01	0·3	- 10	Westminster ..	2·1	+ 0·6	22	7	18	•	•	•	•
ag Greenwich	149	46	15th	16	9th	40·3	23·4	31·9	- 7·5	2	0·03	1	- 8	Greenwich ..	5·2	+ 3·1	54	7	12	•	•	•	•
a Hampstead	450	—	—	—	—	—	—	—	—	—	—	—	—	Hampstead ..	—	—	—	—	—	—	—	—	—
ag Camden Square	110	45	15th	15	9th	38·6	22·4	30·5	- 9·6	2	0·03	1	- 10	Camden Square	0·3	- 1·5	3	7	13	•	•	•	•
7. a, ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	49	14th	22	10th	41·7	28·1	34·9	- 3·7	1	0·04	1	- 18	Aspatria.. ..	5·5	+ 2·9	59	7	17	34·3	- 5·3	40·1	- 2 4
p Newton Rigg	559	49	14th	16	10th	43·7	25·0	34·4	- 2·7	1	0·08	2	- 18	Newton Rigg ..	4·7	+ 2·3	50	6	12	34·5	- 3·8	38·5	-1·3
p Stonyhurst	375	41	13, 14	19	9th	38·6	26 7	32·7	- 5·8	1	0·05	1	- 20	Stonyhurst ..	2·5	+ 0·2	27	6	11	•	•	•	•
p Blackpool	66	43	11th	21	10th	39·6	26 7	33·2	- 6·1	2	0·05	1	- 13	Blackpool ..	2·6	- 0 2	28	6	10	35·3	•	42·0	—
a Southport	37	42	14th	19	10th	39 9	25·9	32·9	- 6·7	2	0·05	1	- 12	Southport ..	3·2	+ 0·5	34	6	12	32·5	- 5·4	38·0	-1·8
														Hoylake ..	2·2	- 0·4	23	•	•	•	•	•	•
a Liverpool (Bidston)	188	43	14th	20	9, 10	38·4	25·7	32·1	- 7·8	3	0·09	2	- 9	Liverpool ..	3·0	—	31	6	17	•	•	•	•
a Hawarden Bridge	22	44	14th	20	9th	38·9	25·9	32·4	- 8·3	0	0·00	0	- 9	Manchester(City)	1·8	+ 0·3	19	6	13	33·3	- 5·0	40·0	-1·9
p Manchester (Whit. Pk.)	130	47	13th	20	9, 10	41·1	26·9	34·0	- 6·2	2	0·03	1	- 11	Whitworth Park	3·5	+ 1·9	37	•	•	•	•	•	•
b. NORTH WALES.																						
p Llandudno	16	48	14th	22	9th	42·1	30·1	36·1	- 5·6	3	0·03	1	- 12	Llandudno ..	4·9	+ 2·2	51	•	•	•	•	•	•
a Holyhead	15	51	12, 13	30	9, 10	46·1	33·1	39·6	- 1·9	3	0·33	9	- 6	Holyhead ..	5·4	—	56	6	20	•	•	•	•
a Beddgelert	309	50	13th	21	9th	42·4	28·4	35·4	—	2	0·02	1	—	Aberdovey ..	—	—	—	•	•	•	•	•	•
a Aberdovey	—	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
8. *a*, SOUTH WALES.																						
a Aberystwyth	59	51	13, 14	25	9, 10	43·4	32·4	37·9	—	1	0·02	1	—									
a Rhayader	767	43	13th	15	12th	36·1	21·3	28·7	—	2	0·08	2	—									
a St. Ann's Head ..	149	45	13th	29	11th	40·6	34·0	37·3	- 5·1	3	0·21	5	- 13									
p Cardiff	202	43	13th	22	9th	37·7	28·6	33·2	- 7·0	3	0·35	9	- 11	Aberystwyth ..	5·9	+ 3·3	61	•	•	•	•	•
														Rhayader ..	4·8	—	50	6	9	•	•	•
														St. Ann's Head	3·4	+ 0·6	35	•	•	•	•	•
														Cardiff	5·2	—	54	6	15	34·3	-5·7	41·5	-1·2
b, ENGLAND, S.W.																						
a Bath	66	45	13th	21	9, 12	34·1	25·0	29·6	-10·9	2	0·06	2	- 12									
a Shaftesbury	722	50	15th	21	9, 10	39·7	26·7	33·2	- 5·6	1	0·02	1	- 15									
a Arlington	613	46	14th	26	9-11	40·9	32·3	36·6	- 3·2	2	0·08	2	- 24									
a Hartland Quay ..	100	—	—	—	—	—	—	—	—	—	—	—	—									
a Newquay	190	52	15th	32	9th	45·6	36·9	41·3	- 2·2	3	0·26	7	- 10	Newquay ..	4·3	+ 1·4	44	4	28	40·3	•	44·6	•
a Cullompton	202	46	13, 15	26	10, 11	41·9	30·4	36·2	- 4·6	3	0·22	6	- 13	Cullompton ..	4·2	+ 1·7	43	5	18	37·2	•	•	•
a Portland Bill	19	45	13, 15	33	9th	41·9	36·6	39·3	- 3·0	3	0·16	4	- 9	Weymouth ..	—	—	—	•	•	•	•	•	•
p Plymouth	116	51	15th	32	9th	44·9	38·0	41·5	- 1·2	3	0·36	9	- 10	Plymouth ..	4·4	+ 1·5	44	1	29	38·0	-4·3	43·6	•
a Falmouth	167	49	13, 15	35	9, 10	44·9	38·9	41·9	- 1·7	4	0·39	10	- 15	Falmouth ..	3·5	+ 0·4	35	?1	?29	41·2	•	44·2	•
9. IRELAND, N.																						
a West .. { *a* Malin Head	208	45	11, 14	30	10th	42·7	33·9	38·3	- 2·3	2	0·09	2	- 12	Malin Head ..	5·3	—	57	•	•	•	•	•	•
a Blacksod Point ..	327	45	13–15	30	10, 14	42·6	33·1	37·9	- 4·2	1	0·12	3	- 20	Markree Castle	3·8	+ 1·4	40	6	23	39·0	-1·9	42·9	-0·6
p Markree Castle ..	122	49	14th	31	9, 10	44·7	34·3	39·5	- 0·5	2	0·15	4	- 16									
b, East .. { *p* Armagh	196	45	12th	25	14th	42·7	31·1	36·9	- 3·1	3	0·29	7	- 6	Armagh	4·1	+ 1·7	44	5	17	37·7	-2·5	42·2	-0·4
a Donaghadee	101	44	11, 13, 14	31	10th	42·7	34·9	38·8	- 1·8	2	0·57	15	+ 2									
10. IRELAND, S.																						
p Dublin, City	47	46	13, 15	32	11th	43·3	35·1	39·2	- 2·9	3	0·19	5	- 7	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
a Birr Castle	175	48	15th	30	10th	44·3	35·1	39·7	- 0·7	2	0·24	6	- 9	Phœnix Park ..	4·2	+ 1·5	44	5	19	•	•	•	•
a Kilkenny	212	49	15th	32	10–12	43·7	35·6	39·7	- 1·1	4	0·40	10	- 6	Dublin City ..	•	•	•	4	27	•	•	•	•
a Waterford	120	49	15th	31	10–12	44·9	35·9	40·4	- 1·7	4	0·84	21	+ 1	Birr Castle ..	3·6	+ 1·1	37	5	22	•	•	•	•
p Seskin, Carrick-on-Suir	541	46	14, 15	29	10, 11	42·1	35·0	38·6	—	4	1·29	33	—	Seskin	3·5	—	36	4	22	•	•	•	•
a Cahir	196	48	15th	30	10th	43·6	35·3	39·5	- 1·5	4	0·35	9	—									
a Foynes	50	49	14th	29	11th	45·6	35·3	40·5	- 1·7	2	0·34	9	- 11									
a Cahirciveen (Val. Obs.)	30	51	15th	37	11th	47·1	41·4	44·3	+ 0·3	2	0·39	10	- 23	Cahirciveen ..	3·3	+ 0·7	34	0	35	•	•	•	•
a Killarney	174	54	15th	36	10, 11	46·9	39·3	43·1	+ 0·4	3	0·26	7	- 26	Ballinacurra ..	2·3	- 0·5	24	•	•	•	•	•	•
a Roche's Point	32	49	15th	36	11th	44·6	40·6	42·6	- 0·7	4	0·43	11	- 12									
11. ENGLISH CHANNEL.																						
a Scilly, St. Mary's ..	131	51	15th	36	10th	46·9	40·7	43·8	- 1·6	4	0·43	11	- 7	Scilly	2·9	- 0·3	29	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	48	15th	26	9th	42·4	31·6	37·0	- 6·2	3	0·71	18	0	St. Heliers ..	4·9	+ 1·4	49	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	48	15th	27	9th	43·9	34·9	39·4	- 4·3	3	0·80	20	+ 1	Guernsey† ..	4·7	+ 1·5	47	4	23	38·3	-4·9	44·3	-1·0

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklya.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, February 15th, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	—	—	40	94	34	0	23	9	14	24	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	Instrument out of action.			—	—	—	—	—	—	—	—	—	—	—	—
Aberdeen	153	105	52	—	—	—	—	24	77	67	0	56	9	15	7	11	15	7	10
Edinburgh	485	39	31	—	—	—	—	3	71	94	0	56	6	15	15	11	15	16	20
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	—	—	15	77	76	0	40	9	11	9	13	15	11	35
Paisley	188	81	15	—	—	—	—	1	59	108	0	79	6	15	14	13	15	11	30
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	—	19	149	0	146	5	15	21	9	15	23	35
South Shields	72	61	12	—	—	—	—	1	107	60	0	135	6	15	23	13	15	23	15
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	—	—	9	128	31	0	—	8	13	11	9	13	11	15
Shoeburyness	103	90	‡	—	—	10	5	55	65	18	25	113	12	10	5	15	10	5	45
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	11	60	88	9	110	8	10	12	15	10	9	55
5. ENGLAND, S.E.																			
Warlingham	642	33	‡	—	Instrument out of action.			—	—	—	—	—	—	—	—	—	—	—	—
Brighton	261	53	6	—	—	—	—	61	106	1	0	—	11	10	11	21	10	10	40
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	9	47	112	0	113	8	10	12	15	10	12	25
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	3	74	91	0	—	—	—	—	—	—	—	—
Fleetwood (Cup Anr.) ..	109	44	—	—	—	—	—	9	136	23	0	135	7	9	1	—	—	—	—
Southport	80	62	48	—	—	—	—	64	101	3	0	79	9	11	13	12	11	12	35
Holyhead	60	40	‡	—	—	10, 11	12	45	69	41	1	90	13	10	19	17	10	16	30
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	9 to 11	52	9, 11, 12	32	48	20	16	0	90	25	10	15	31	10	15	5
Plymouth	185	88	2	—	—	9, 10	18	59	81	10	0	—	16	10	14	27	10	15	25
Lyme Regis	556	61	‡	—	—	9	1	44	37	46	40	—	8	11	1	15	9	12	35
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	10, 11	3	82	79	4	0	135	12	10	24	—	—	—	—
Quilty	100	40	‡	—	—	9 to 11	37	111	20	0	0	—	15	9	7	21	10	15	30
Cahirciveen (Val. Obs.)	98	41	‡	9, 10	3	9 to 11	44	81	40	0	0	115	17	9	23	28	10	21	20
Weaver Pt.	160	30	‡	9 to 11	39	9, 11, 12	42	61	26	0	0	—	19	10	24	27	10	16	10
1. ENGLISH CHANNEL																			
Scilly	150	32	‡	9, 10	36	9, 11, 12	45	48	39	0	0	113	22	10	11	32	10	8	5

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
Standard mounting.
‡ Direction from the Robinson Anemometer at Falmouth Observatory.
* Above tops of trees.
** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

SEVENTH WEEK of 1919—February 9th to February 15th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	47	12	77·2	70·6	73·9	− 2·4	0	− 8	59	+ 21	2	− 3	0·15	4	− 27	2·9	+0·8	32	1020
Eastern.																			
1. SCOTLAND, EAST ...	47	5	77·1	68·8	73·0	− 3·1	0	− 9	70	+ 26	2	− 2	0·32	8	− 6	3·2	+0·4	35	1020
2. ENGLAND, N.E.	45	11	77·2	69·7	73·4	− 3·4	0	− 11	64	+ 31	2	− 2	0·12	3	− 6	2·9	+0·2	31	1021
3. ENGLAND, EAST ...	48	10	77·3	68·4	72·8	− 3·9	0	− 13	72	+ 36	2	− 2	0·03	1	− 10	3·7	+1·1	39	1021
4. MIDLAND COUNTIES ...	45	9	76·1	67·6	71·8	− 5·0	0	− 14	85	+ 48	2	− 2	0·09	2	− 10	3·3	+0·9	35	1020
5. ENGLAND, S.E.	48	16	77·7	70·6	74·2	− 3·4	0	− 15	55	+ 27	2	− 2	0·05	1	− 13	4·9	+2·1	50	1020
Western.																			
6. SCOTLAND, WEST ...	54	18	78·2	71·2	74·7	− 2·4	0	− 11	48	+ 17	2	− 3	0·24	6	− 21	1·9	−0·3	20	1021
7. ENGLAND, N.W.	51	16	78·1	70·5	74·3	− 3·0	0	− 12	53	+ 25	2	− 2	0·08	2	− 18	3·8	+1·3	39	1018
8. ENGLAND, S.W.	51	15	77·6	72·6	75·1	− 3·1	0	− 18	43	+ 20	3	− 1	0·19	5	− 15	4·4	+1·7	45	1016
9. IRELAND, NORTH ...	49	25	79·3	73·9	76·6	− 1·1	4	− 12	30	+ 5	2	− 3	0·24	6	− 11	3·8	+1·4	41	1016
10. IRELAND, SOUTH ...	54	29	80·2	75·8	78·0	− 0·6	8	− 14	19	0	3	− 1	0·38	10	− 11	3·4	+0·8	35	1012
11. ENGLISH CHANNEL ...	51	26	79·9	75·1	77·5	− 2·3	7	− 18	24	+ 15	3	− 2	0·65	16	− 3	4·2	+0·8	42	1014

THE SEASON (Winter).—Aggregates, &c., for the Period of 11 Weeks, December 1st, 1918, to February 15th, 1919.

0. SCOTLAND, NORTH ...	59	12	78·5	73·7	76·2	− 0·3	69	− 12	405	+ 35	49	− 9	9·83	251	−116	1·2	+0·3	17	1005
Eastern.																			
1. SCOTLAND, EAST ...	59	5	78·1	72·8	75·5	− 0·5	66	− 13	480	+ 37	47	+ 2	6·49	165	− 7	1·5	0·0	20	1006
2. ENGLAND, N.E.	60	11	79·0	74·2	76·7	0·0	98	0	373	+ 15	51	+ 9	6·71	171	+ 50	1·4	−0·2	18	1009
3. ENGLAND, EAST ...	59	10	79·5	74·2	76·9	+ 0·2	132	+ 23	393	+ 11	53	+ 8	6·03	154	+ 30	1·4	−0·3	17	1011
4. MIDLAND COUNTIES ...	59	9	79·3	74·1	76·8	+ 0·1	133	+ 13	409	+ 10	52	+ 7	7·14	182	+ 35	1·4	−0·1	17	1010
5. ENGLAND, S.E.	59	16	80·2	75·3	77·8	+ 0·2	202	+ 47	304	+ 11	55	+12	7·40	188	+ 25	1·6	−0·2	19	1012
Western.																			
6. SCOTLAND, WEST ...	57	14	79·3	74·9	77·2	+ 0·1	99	− 18	302	+ 9	55	+ 2	11·85	301	− 10	1·2	−0·1	15	1008
7. ENGLAND, N.W.	58	16	79·8	75·3	77·6	+ 0·2	132	+ 9	293	+ 6	53	+ 6	9·48	239	+ 36	1·4	0·0	17	1008
8. ENGLAND, S.W.	59	15	80·6	76·0	78·4	0·0	219	+ 26	231	+ 13	57	+ 8	12·67	323	+ 65	1·9	+0·2	22	1010
9. IRELAND, NORTH ...	60	23	80·6	75·9	78·3	+ 0·4	172	+ 20	216	− 35	57	+ 1	9·50	239	+ 10	1·8	+0·3	23	1005
10. IRELAND, SOUTH ...	60	23	81·5	76·5	79·1	+ 0·3	246	+ 15	174	− 20	57	+ 4	12·13	309	+ 49	2·0	+0·3	24	1008
11. ENGLISH CHANNEL ...	57	26	82·2	78·5	80·4	+ 0·2	334	+ 30	78	0	60	+ 5	12·77	324	+105	1·9	−0·3	22	1012

THE YEAR 1919.—Aggregates, &c., for the Period of 7 Weeks, December 29th, 1918, to February 15th, 1919.

0. SCOTLAND, NORTH ...	50	12	77·5	72·5	75·1	− 1·2	4	− 42	321	+ 69	27	− 9	4·56	117	−110	1·4	+0·3	19	1008
Eastern.																			
1. SCOTLAND, EAST ...	51	5	77·0	71·6	74·4	− 1·5	0	− 48	370	+ 76	29	+ 1	4·43	113	+ 12	1·6	−0·1	20	1008
2. ENGLAND, N.E.	53	11	77·5	72·9	75·3	− 1·2	7	− 53	308	+ 67	32	+ 6	4·24	109	+ 40	1·5	−0·3	19	1010
3. ENGLAND, EAST ...	55	10	77·8	72·6	75·3	− 1·1	24	− 40	337	+ 78	30	+ 2	3·35	85	+ 13	1·6	−0·4	19	1012
4. MIDLAND COUNTIES ...	56	9	77·4	72·4	74·9	− 1·6	18	− 54	351	+ 85	29	+ 1	4·11	104	+ 19	1·6	−0·1	19	1011
5. ENGLAND, S.E.	55	16	78·4	73·6	76·1	− 1·2	55	− 31	267	+ 63	32	+ 5	5·12	130	+ 39	1·8	−0·1	21	1011
Western.																			
6. SCOTLAND, WEST ...	54	14	78·2	73·8	76·0	− 1·1	10	− 57	242	+ 41	30	− 4	6·06	154	− 28	1·3	−0·2	16	1009
7. ENGLAND, N.W.	54	16	78·2	73·8	76·1	− 1·1	15	− 55	248	+ 53	31	+ 2	4·10	102	− 16	1·7	+0·1	20	1009
8. ENGLAND, S.W.	56	15	79·0	74·4	76·8	− 1·3	55	− 55	214	+ 58	33	+ 3	7·07	180	+ 38	2·2	+0·3	26	1010
9. IRELAND, NORTH ...	52	23	79·4	74·8	77·1	− 0·7	41	− 53	178	+ 9	33	− 2	4·96	125	− 11	2·0	+0·4	24	1007
10. IRELAND, SOUTH ...	56	23	80·2	75·4	77·9	− 0·7	78	− 62	151	+ 19	34	+ 1	6·57	168	+ 16	2·2	+0·3	26	1007
11. ENGLISH CHANNEL ...	56	26	81·0	77·0	79·0	− 0·8	118	− 51	78	+ 17	36	+ 2	8·83	223	+103	2·2	−0·2	25	1010
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: COL. H. G. LYONS, R.E., F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: February 21st, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 8.

THE EIGHTH WEEK OF 1919.

SUNDAY, FEBRUARY 16TH, TO SATURDAY, FEBRUARY 22ND, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

At the beginning of the week an important low pressure system was advancing over the British Isles from the westward, displacing a "high" which had recently dominated our weather. It was followed at short intervals by other depressions, and unsettled conditions prevailed till the end of the period, with much rain over England. The tracks of the cyclones lay over the Southern and Eastern Districts and the heaviest rains occurred there. The mean temperature for the week was higher over the country generally than for several weeks, and over the greater part of England it exceeded the normal; in Scotland and the northern parts of England and Ireland, however, it remained below it. The highest of the maxima occurred generally on the 22nd, with readings of 284 a. over the southern half of England; over Ireland the 19th was the warmest day, when 286 a. was recorded at Killarney. The lowest minima were registered on the 18th, the stations in Scotland with the lowest readings being Strathpeffer 261 a. and Balmoral 262 a., and in England and Wales, Buxton 264 a. and Rhayader 265 a. Rainfall was deficient in Ireland and in the North and West of Scotland, but exceeded the normal in all other districts, the excess being very large in England E., the Midland Counties, England S.E., England S.W., and the Channel Islands. In those regions rain fell, as a rule, on each day, but the major part of the total was due to the heavy downpour of the first two days, when the combined measurements at many stations amounted to more than 30mm., increasing to between 40mm. and 50mm. in the extreme west of Cornwall; at Beddgelert on the 19th there were 23mm. and on the 21st 28mm. Bright sunshine was generally very scanty and at a few places the week was sunless, but at some stations in the more western districts the dulness of the week was relieved by one fine day. Aurora was seen at Gordon Castle on the 18th and solar halos were recorded at Oxford and Tenbury on the 21st.

Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	10	6·0	10	3·1	13	3·3	16	3·2	11	4·0	17	6·0	16	4·1	13	4·3
North	14	4·1	12	2·6	13	5·4	6	4·3	10	5·1	8	6·9	9	6·6	14	5·6
West	10	2·5	3	2·3	4	1·7	10	3·7	7	4·2	13	8·4	4	7·2	9	4·4
East	17	8·9	19	2·6	23	4·4	15	2·7	17	6·2	11	4·9	20	5·1	18	4·4
Calm	0	—	5	—	1	—	2	—	4	—	0	—	2	—	1	—

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Moderate	Heavy	Very heavy	Very heavy	Very heavy	Very heavy	Moderate	Heavy	Very heavy	Moderate	Moderate	Very heavy
	Sunshine ...	Scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Scanty	Scanty	Very scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

WINTER. 12 weeks from Dec. 1st, 1918.	Warmth ...	2, 4, 6	2, 5, 5	2, 6, 4	4, 4, 4	2, 6, 4	5, 3, 4	2, 7, 3	2, 7, 3	3, 5, 4	3, 8, 1	2, 7, 3	4, 4, 4
	Rainfall ...	1, 7, 4	4, 6, 2	6, 3, 3	7, 3, 2	6, 4, 2	4, 6, 2	3, 6, 3	6, 3, 3	8, 2, 2	5, 4, 3	6, 4, 2	8, 3, 1
	Sunshine ...	5, 4, 3	4, 4, 4	2, 5, 5	1, 6, 5	4, 2, 5	2, 4, 6	2, 6, 4	3, 5, 4	3, 6, 3	6, 3, 3	3, 6, 3	2, 4, 6

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(21925—19.) Wt. 199—789. 625. 2/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

['TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.				
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.	
						Of Daily Max.	Of Daily Min.	Daily Mean.										Ground Frosts	Lowest Reading.	Mean	Deviation from Average	Mean.	Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	°/c.		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																							
a, Islands.. *a* Lerwick..	468	39	22nd	21	18th	36·4	27·7	32.1	− 4·6	5	0·32	8	− 9										
a Houton Bay	—	40	22nd	25	17, 18	36·1	30·1	33·1	—	—	—	—	—	Deerness ..	—	—	—	•	•	•	•	•	•
a Stornoway	51	44	16th	29	18th	40·9	34·0	37·5	− 1·6	6	1·69	43	+ 20	Stornoway ..	1·3	− 1·2	14	•	•	•	•	•	•
a Castlebay, Barra Isd.	37	46	21st	32	17, 18	42·9	35·7	39·3	—	6	0·95	24	—	Castlebay ..	1·9	—	20	•	•	•	•	•	•
b, Mainland. *a* Wick	81	42	22nd	25	18th	39·0	32·0	35·5	− 2·5	7	0·84	21	+ 9	Fort Augustus..	—	—	—	•	•	•	•	•	•
a Strathpeffer	125	42	19th	11	18th	37·6	27·4	32·5	− 5·3	4	1·16	30	+ 16										
p Glencarron	500	40	22nd	18	18th	37·9	29·4	33·7	− 3·5	6	0·42	11	− 30										
a Fort Augustus.. ..	68	49	20th	14	18th	41·6	29·0	35·3	− 2·7	2	0·23	6	− 15										
p Fort William	171	45	21, 22	18	18th	41·3	31·0	36·2	− 2·9	4	0·35	9	− 29										
1. SCOTLAND, E.																							
a Nairn	82	41	19, 21, 22	16	18th	38·1	28·1	33·1	− 4·7	4	0·33	8	− 3	Nairn	0·8	—	8	•	•	•	•	•	•
p Gordon Castle	101	45	19th	22	18th	39·3	30·7	35·0	− 3·8	6	0·64	16	+ 4	Gordon Castle..	0·7	—	7	•	•	•	•	•	•
a Aberdeen	46	42	21, 22	27	18, 19	39·7	33·6	36·7	− 1·8	5	1·01	26	+ 13	Aberdeen ..	0·2	− 2·6	2	2	22	•	•	38·0	−1·4
a Balmoral	930	38	19th	12	18th	34·3	27·4	30·9	− 3·7	5	0·84	21	+ 5	Balmoral ..	•	•	•	6	10	•	•	•	•
p Crieff	432	41	22nd	19	18th	36·9	29·1	33·0	− 5·3	6	0·87	22	+ 2	Crathes	0·0	− 3·0	0	5	17	32·9	−3·1	36·0	−1·8
a Dundee	244	42	22nd	25	18th	38·0	31·7	34·9	− 2·9	5	1·27	32	+ 21	Dundee	0·2	—	2	2	21	33·0	•	•	•
a Leith	30	42	22nd	30	18, 19	39·4	34·4	36·9	− 2·8	5	0·95	24	+ 15	Leith	—	—	—	3	28	•	•	•	•
p Edinburgh	441	43	20th	28	18th	39·0	33·0	36·0	− 2·5	5	0·70	18	+ 9	Edinburgh ..	0·7	− 2·3	7	3	23	•	•	•	•
a West Linton	769	40	22nd	23	18th	36·3	30·3	33·3	− 2·3	5	0·40	10	—	West Linton ..	0·7	—	7	3	21	•	•	•	•
p Marchmont	498	42	22nd	27	19th	38·7	31·6	35·2	− 2·2	6	1·43	36	+ 23	Marchmont .	0·4	− 2·2	4	•	•	•	•	•	•
6. *a*, SCOTLAND, W.																							
a Ford (Argyll)	149	45	22nd	19	18th	41·7	31·3	36·5	—	4	0·54	14	—	Ford (Argyll) ..	•	•	•	3	10	34·9	•	38·5	•
p Glasgow Observatory	180	43	22nd	25	18th	39·0	32·1	35·6	− 3·7	3	0·41	10	− 6	Glasgow.. ..	0·8	− 0·9	8	2	17	•	•	•	•
p Rothesay	200	42	22nd	27	18th	39·4	33·0	36·2	− 3·9	5	0·80	20	− 2	Rothesay ..	1·3	—	13	2	20	36·4	•	40·0	−1·9
a Kilmarnock	90	46	21st	22	18th	42·3	33·4	37·9	− 0·9	4	0·39	10	− 7	Kilmarnock	1·6	—	16	•	•	35·1	•	39·8	—
a Colmonell	170	47	21, 22	23	18th	43·7	33·4	38·6	− 0·5	3	0·83	21	0	Colmonell ..	•	•	•	2	19	•	•	•	•
p Cally, Gatehouse ..	120	45	22nd	26	18th	42·6	34·0	38·3	− 0·7	4	1·03	26	+ 3	Dumfries	0·9	—	9	2	21	35·9	−3·1	39·0	−1·4
p Dumfries	180	45	22nd	28	18th	41·0	33·7	37·4	− 1·7	4	0·53	13	− 4	Eskdalemuir ..	0·7	—	7	6	19	•	•	•	•
a Eskdalemuir	794	42	21, 22	26	18–20	38·1	30·0	34·1	—	5	0·48	12	—										
b, I. OF MAN *p* Douglas	277	48	22nd	32	18th	42·1	36·9	39·5	− 1·2	5	0·72	18	+ 5	Douglas	0·8	− 1·9	8	1	27	•	•	•	•
2. ENGLAND, N.E																							
a North .. *a* Alnwick Castle ..	210	42	21, 22	29	19th	40·0	33·6	36·8	− 1·7	6	1·07	27	+ 17										
a Tynemouth	71	43	21st	30	19, 20	40·6	35·1	37·9	− 1·1	5	0·91	23	+ 16	Cockle Park ..	0·0	− 3·0	0	2	23	34·3	−3·0	36·9	−2·6
p Durham	336	44	21, 22	26	19th	40·0	33·3	36·7	− 1·3	6	0·70	18	+ 11	Durham ..	0·1	− 2·5	1	2	17	•	•	•	•
p Rounton	249	47	22nd	26	19th	42·0	33·6	37·8	− 0·1	6	0·67	17	+ 9	Rounton ..	•	•	•	2	13	35·0	•	•	•
a West Witton	605	42	21, 22	25	19th	37·9	32·6	35·3	—	6	1·62	41	—	West Witton .	•	•	•	3	21	34·0	•	37·3	•
p Scarborough	100	47	22nd	34	19th	43·3	36·9	40·1	+ 0·4	6	1·48	38	+ 29	Scarborough† ..	0·2	− 2·4	2	•	•	•	•	39·5	•
p York	58	51	22nd	30	19th	43·0	36·1	39·6	+ 0·3	6	0·87	22	+ 14	York	0·1	− 2·1	1	—	—	36·1	−2·9	39·2	−1·7
b, South .. *a* Spurn Head	26	45	21st	34	19th	40·3	36·3	38·3	− 0·9	6	1·82	46	+ 40	Spurn Head ..	0·3	—	3	•	•	•	•	•	•
a Lincoln	58	51	22nd	33	17, 18	43·0	36·0	39·5	+ 0·4	7	2·05	52	+ 45	Lincoln	•	•	•	0	31	34·7	−3·1	38·5	−1·8
a Fulbeck	180	50	21, 22	32	17, 19	42·4	34·7	38·6	− 0·4	7	2·37	60	+ 52	Fulbeck	0·2	− 2·8	2	•	•	—	—	•	•
														Skegness ..	0·3	− 2·8	3	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	51	21, 22	32	19th	44·1	36·4	40·3	+ 1·3	7	1·22	31	+ 25	Cromer	0·3	− 2·9	3	•	•	•	•	•	•
a Little Massingham ..	280	49	21, 22	29	19th	43·0	34·0	38·5	− 0·3	7	2·32	59	+ 50	Lit. Massingham	0·2	− 2·6	2	•	•	•	•	•	•
a Yarmouth	13	51	21st	32	19th	43·3	35·9	39·6	+ 0·9	7	1·56	40	+ 33	Yarmouth ..	0·4	—	4	1	29	38·0	−1·4	40·6	−2·0
a Norwich	93	51	22nd	28	19th	44·3	36·1	40·2	+ 1·1	7	2·95	75	+ 67	Norwich ..	0·1	—	1	2	22	33·4	•	•	•
a Geldeston	37	53	21, 22	27	19th	45·6	34·9	40·3	+ 1·0	7	1·68	43	+ 36	Geldeston ..	0·2	− 2·8	2	•	•	•	•	•	•
p Cambridge	41	52	21, 22	28	19th	44·4	37·1	40·8	+ 1·5	6	2·48	63	+ 57	Cambridge ..	0·1	− 2·9	1	1	25	35·8	−3·9	39·5	−2·6
a Clacton-on-Sea ..	54	46	21, 22	32	19th	43·4	36·6	40·0	+ 1·1	7	2·05	52	+ 46	Clacton	0·3	− 3·0	3	2	25	39·3	−1·5	41·4	−2·1
a Rothamsted	424	49	21, 22	30	19th	45·4	35·6	40·5	+ 1·8	7	2·19	56	+ 47	Rothamsted ..	0·1	− 2·7	1	1	29	35·1	•	•	•
p Tottenham	51	51	21, 22	33	18, 19	46·1	38·1	42·1	—	6	1·55	39	—	Tottenham ..	0·0	—	0	2	28	•	•	39·2	−4·0
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	44	21, 22	27	19th	39·0	33·3	36·2	− 1·3	6	1·57	40	+ 29	Harrogate ..	0·1	− 2·7	1	1	20	34·6	−3·8	37·5	−2·2
p Sheffield	429	48	22nd	27	19th	40·6	34·0	37·3	—	6	1·96	50	—	Sheffield.. ..	0·1	− 2·5	1	1	22	33·7	−4·6	39,0	−1·6
p Buxton	987	46	22nd	16	19th	37·9	31·1	34·5	—	6	1·30	33	+ 13	Buxton	0·5	—	5	1	22	32·9	−4·7	38·4	−2·3
b, East .. *a* Bawtry	65	50	22nd	26	19th	42·7	34·6	38·7	− 0·2	6	2·02	51	+ 44	Worksop	0·1	− 2·3	1	2	18	35·0	•	38·1	•
a Nottingham	82	50	22nd	30	19th	42·0	34·7	38·4	− 0·3	6	2·05	52	+ 44	Nottingham ..	0·0	− 2·4	0	1	23	33·8	−4·5	36·0	−3·4
p Birmingham, Edgbsn.	535	48	22nd	28	19th	41·6	35·0	38·3	− 0·3	7	2·43	62	+ 53	Birmingham ..	0·3	− 1·7	3	2	20	36·0	−4·2	41·7	−1·7
a Raunds	203	52	21st	30	19, 20	44·0	34·6	39·3	+ 1·0	7	2·31	59	+ 51	Raunds	0·2	—	2	2	26	35·7	•	42·1	—
p Oxford	208	51	20th	32	19th	44·0	37·9	41·0	+ 1·5	7	1·76	45	+ 37	Oxford	0·2	− 2·5	2	1	22	•	•	•	•
														Malvern ..	0·5	—	5	4	20	33·3	—	38·2	—
c, West .. *a* Cheadle (N. Staffs.) ..	646	48	22nd	26	19th	40·1	33·4	36·8	− 0·8	6	1·96	50	+ 39	Cheadle	•	•	•	1	21	•	•	•	•
p Tenbury	313	51	22nd	24	19th	42·0	33·4	37·7	− 1·6	6	1·91	49	+ 42	Tenbury	•	•	•	2	19	34·3	•	•	•
p Ross-on-Wye	201	52	20th	28	19th	44·1	36·9	40·5	+ 0·9	6	2·36	60	+ 50	Ross-on-Wye ..	0·6	—	6	1	24	—	—	•	•
a Clifton	226	50	20th	30	19th	44·3	37·1	40·7	+ 0·5	7	2·45	62	+ 48	Clifton	0·2	—	2	2	27	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	51	20th	30	19th	46·7	37·1	41·9	+ 3·4	7	2·05	52	+ 40	Worthing	0·3	− 3·3	3	1	29	39·7	−1.5	41·7	−2·1
p Salisbury (Wilton) ..	180	52	20th	33	18, 19	46·9	38·4	42·7	+ 3·2	7	2·35	60	+ 47	Marlborough ..	0·1	− 2·4	1	1	23	37·9	•	42·1	—
a Wisley, Surrey ..	150	51	22nd	32	19th	47·4	38·1	42·8	+ 3·7	7	1·33	34	+ 25	Salisbury ..	•	•	•	•	29	37·5	•	•	•
a Tunbridge Wells ..	354	51	17th	28	19th	47·3	37·4	42·4	+ 3·3	6	1·42	36	+ 24	Wisley	0·1	− 2·6	1	1	25	36·8	−3·3	39·6	−2·7
a Margate	51	52	17th	32	19th	47·9	38·4	43·2	+ 3·1	7	1·13	29	+ 22	Tunbridge Wells	0·1	− 2·9	1	1	21	39·9	+1·5	40·7	—
														Margate	0·3	− 2·7	3	1	28	39·6	−1·6	40·2	−2·8
a Dungeness	21	48	21st	29	19th	46·9	38·3	42·6	+ 2·8	7	1·26	32	+ 24	Folkestone ..	0·0	—	0	•	•	•	•	42·0	—
p St. Leonards	178	48	17, 18, 22	33	19th	46·6	40·3	43·5	+ 3·2	7	1·61	41	+ 31	St. Leonards ..	0·2	− 3·2	2	1	26	39·5	•	41·0	—
p Southampton	64	52	22nd	33	18th	48·1	39·6	43·9	+ 2·6	6	2·35	60	+ 49	Southampton ..	0·4	− 2·7	4	1	30	•	•	•	•
a Ventnor	59	52	17th	33	18, 19	47·4	39·6	43·5	+ 1·5	7	1·94	49	+ 39	Ventnor	0·6	− 2·9	6	•	•	•	•	•	•
LONDON. *a* Richmond (Kew Obs.)	18	52	22nd	32	19th	47·5	37·9	42·7	+ 2·6	7	1·54	39	+ 31	Richmond	0·1	− 2·4	1	1	25	35·4	−4·7	40·1	−2·9
a Westminster	27	52	21, 22	33	19th	48·8	38·9	43·9	+ 3·1	7	1·73	44	+ 36	Westminster ..	0·1	− 1·6	1	1	29	•	•	•	•
ag Greenwich	149	53	22nd	31	19th	48·3	37·9	43·1	+ 2·8	7	1·62	41	+ 31	Greenwich ..	0·2	− 2·0	2	1	26	•	•	•	•
a Hampstead	450	49	21, 22	31	18, 19	44·4	37·4	40·9	—	7	1·77	45	—	Hampstead ..	0·1	—	1	2	28	•	•	•	•
ag Camden Square ..	110	52	22nd	31	19th	47·7	37·7	42·7	+ 2·6	7	2·00	51	+ 42	Camden Square	0·1	− 2·0	1	2	30	•	•	•	•
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	46	22nd	28	19th	41·7	34·0	37·9	− 0·6	6	0·51	13	− 4	Aspatria.. ..	0·9	− 1·9	9	2	24	36·4	−4·0	39·5	−3·1
p Newton Rigg	559	47	22nd	26	19th	40·4	32·6	36·5	− 0·7	4	0·56	14	− 3	Newton Rigg ..	1·0	− 1·7	10	3	20	34·7	−3·9	38·1	−1·8
p Stonyhurst	375	49	22nd	28	19th	41·0	34·3	37·7	− 0·7	6	1·13	29	+ 10	Stonyhurst ..	0·8	− 1·7	8	1	21	•	•	•	•
p Blackpool	66	50	22nd	30	19th	43·4	36·0	39·7	+ 0·5	5	1·22	31	+ 19	Blackpool ..	0·8	− 2·3	8	3	19	36·7	•	41·1	—
a Southport	37	50	22nd	30	19th	43·4	35·6	39·5	0·0	6	1·03	26	+ 14	Southport ..	0·9	− 2·1	9	2	24	34·1	−4·5	37·4	−2·8
														Hoylake ..	0·6	− 2·2	6	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	50	22nd	29	19th	42·6	35·0	38·8	− 1·1	6	0·95	24	+ 15	Liverpool ..	0·4	—	4	2	27	•	•	•	•
a Hawarden Bridge ..	22	51	22nd	30	19th	43·4	36·0	39·7	− 1·0	6	1·19	30	+ 22	Manchester(City)	0·3	− 1·4	3	1	29	34.5	−4·3	39·4	−2·5
p Manchester (Whit. Pk.)	126	50	22nd	29	19th	43·1	36·0	39·6	− 0·5	5	0·61	15	+ 4	Whitworth Park	0·2	− 1·5	2	•	•	•	•	•	•
b, NORTH WALES.																							
p Llandudno	16	52	22nd	31	18, 19	45·0	36·6	40·8	− 0·6	6	1·02	26	+ 15	Llandudno ..	1·5	− 1·5	15	•	•	•	•	•	•
a Holyhead	15	49	22nd	34	19th	45·4	38·0	41·7	+ 0·5	6	0·91	23	+ 9	Holyhead ..	1·4	—	14	1	28	•	•	•	•
a Beddgelert	309	48	21, 22	26	19th	43·4	34·9	39·2	—	6	3·71	94	—	Aberdovey ..	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.			Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average
8. *a.* SOUTH WALES.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		mm.	mm.			hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
a Aberystwyth	59	48	21st	32	19th	44·6	37·9	41·3	—	6	1·09	28	—	Aberystwyth ..	1·2	- 1·7	12	•	•	•	•	•	•
a Rhayader	757	50	22nd	18	19th	40·9	32·3	36·6	—	6	1·96	50	—	Rhayader ..	0·4	—	4	1	14	•	•	•	•
a St. Ann's Head	149	48	21st	34	18th	44·3	38·7	41·5	- 0·2	7	2·06	52	+ 38	St. Ann's Head ..	1·0	- 2·2	10	•	•	•	•	•	•
p Cardiff	202	49	20–22	30	18, 19	44·0	36·4	40·2	+ 0·3	6	3·44	87	+ 71	Cardiff	0·3	—	3	2	19	36·4	-4·2	40·5	-2·3
b, ENGLAND, S.W.																							
a Bath	66	52	20, 21	29	19th	46·9	38·3	42·6	+ 2·4	7	2·09	53	+ 42	Bath	•	•	•	•	•	38·3	-2·1	41·1	-2·0
a Shaftesbury	722	48	20–22	30	18th	45·9	35·3	40·6	+ 2·0	6	1·73	44	+ 32	Shaftesbury ..	•	•	•	•	•	38·4	•	39·6	•
a Arlington	613	49	21st	29	19th	45·4	37·7	41·6	+ 2·2	7	3·04	77	+ 57										
a Newquay	190	53	19th	33	19th	50·3	40·1	45·2	+ 2·3	5	2·43	62	+ 49	Newquay ..	1·1	- 2·3	11	1	26	45·2	•	44·7	•
a Cullompton	202	54	20th	29	19th	49·3	38·1	43·7	+ 3·2	7	2·31	59	+ 45	Cullompton ..	0·9	- 2·0	9	2	21	41·4	•	•	•
a Portland Bill	19	49	17, 21, 22	35	18, 19	47·1	40·0	43·6	+ 1·8	5	2·01	51	+ 41	Weymouth ..	0·9	—	9	•	•	•	•	•	•
p Plymouth	116	54	17th	35	18th	50·1	41·3	45·7	+ 3·5	7	3·47	88	+ 73	Plymouth ..	1·2	- 2·0	12	0	32	43·8	+1·1	43·9	•
a Falmouth	167	52	20, 21	32	18th	50·3	41·0	45·7	+ 2·7	7	3·32	84	+ 65	Falmouth ..	1·5	- 2·0	15	1	28	45·9	•	45·0	•
9. IRELAND, N.																							
a West .. *a* Malin Head	208	46	22nd	31	19th	43·1	35·6	39·4	- 1·9	4	0·35	9	- 5	Malin Head ..	0·7	—	7	•	•	•	•	•	•
a Blacksod Point ..	327	47	19–21	33	20th	44·9	36·3	40·6	- 2·1	7	0·91	23	- 1	Markree Castle	1·4	- 1·1	14	4	19	40·7	-0·8	42·8	-0·7
p Markree Castle ..	122	50	20th	25	18th	46·3	34·3	40·3	- 0·4	5	0·48	12	- 8										
b, East .. *p* Armagh	196	47	21st	25	18th	43·6	35·9	39·8	- 0·8	4	0·24	6	- 7	Armagh	1·4	- 1·1	14	2	16	39·2	-1·5	41·9	-0·8
a Donaghadee	101	45	21, 22	30	18th	43·1	35·9	39·5	- 1·8	4	0·95	24	+ 11										
10. IRELAND, S.																							
p Dublin, City	47	47	21st	31	18th	45·1	38·9	42·0	- 0·3	7	0·54	14	+ 2	Trinity Coll. ..	•	•	•	2	21	41·2	-0·6	43·1	-0·6
a Birr Castle	175	53	19th	25	19th	46·7	34·6	40·7	+ 0·1	5	0·41	10	- 4	Phœnix Park ..	1·4	- 1·7	14	1	27	•	•	•	•
a Kilkenny	212	52	19th	29	18th	46·3	36·0	41·2	+ 0·1	4	0·58	15	0	Dublin City ..	•	•	•	2	28	•	•	•	•
a Waterford	120	51	20th	30	18th	46·3	38·1	42·2	- 0·1	6	1·38	35	+ 16	Birr Castle ..	1·3	- 1·5	13	3	18	•	•	•	•
p Seskin, Carrick-on-Suir	541	49	19th	28	18th	45·3	36·6	41·0	—	5	1·29	33	—	Seskin	1·2	—	12	3	25	•	•	•	•
a Cahir	198	53	19th	26	18th	45·7	36·4	41·1	- 0·2	4	0·77	20	—										
a Foynes	50	55	19th	27	18th	47·9	35·4	41·7	- 0·7	6	0·47	12	- 7										
a Cahirciveen (Val. Obs.)	30	53	21st	29	19th	48·9	38·9	43·9	- 0·2	5	0·12	3	- 28	Cahirciveen ..	1·6	- 1·3	16	1	26	•	•	•	•
a Killarney	174	56	19th	30	19, 21	49·6	38·9	44·3	+ 1·4	6	1·18	30	- 1	Ballinacurra ..	1·3	- 2·0	13	•	•	•	•	•	•
a Roche's Point	32	51	19, 20	34	18th	47·9	39·6	43·8	+ 0·4	4	1·04	26	+ 5										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	52	19, 21	39	18th	50·9	43·9	47·4	+ 2·3	5	2·80	71	+ 57	Scilly	2·1	- 1·3	20	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	53	16th	38	19th	49·3	41·4	45·4	+ 2·2	7	2·81	46	+ 33	St. Heliers ..	1·1	- 2·5	11	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	52	22nd	37	18, 19	49·1	41·6	45·4	+ 1·7	7	1·99	51	+ 37	Guernsey† ..	0·8	- 2·6	8	1	30	43·7	+0·1	43·8	-1·6

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, February 22nd, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time. day.	hr.	Highest Gust. Speed.	Date. d.	h.	m.
0. SCOTLAND, N.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
Deerness (Cup Anr.)** ..	188	16	5	20	1	16, 18, 20, 21	32	99	31	5	0	67	18	20	11	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	—	124	21	23	—	5	19	3	12	19	3	10
Aberdeen	153	105	52	—	—	—	—	36	100	32	0	146	8	16	11	13	18	23	40
Edinburgh	485	39	31	—	—	—	—	26	99	43	0	191	11	19	1	17	19	1	10
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	17	9	43	86	30	0	30	14	17	13	21	17	13	20
Paisley	188	81	15	—	—	—	—	20	121	27	0	191	7	18	20	14	21	16	55
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	14	72	82	0	146	7	19	18	14	17	14	35
South Shields	72	61	12	—	—	17	4	55	78	27	4	45	13	17	18	17	17	18	35
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	16 to 18	30	57	74	7	0	11	13	18	4	—	—	—	—
Gorleston	52	42	‡	—	—	17, 18, 21	14	102	17	8	27	11	12	18	11	17	18	4	15
Shoeburyness	103	90	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	17	2	93	60	13	0	245	12	17	23	19	17	23	10
5. ENGLAND, S.E.																			
Warlingham	642	33	‡	—	Instrument out of action.			—	—	—	—	—	—	—	—	—	—	—	—
Brighton	281	53	6	—	—	21	2	106	52	8	0	—	12	21	18	20	21	16	25
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	17	1	17 to 19, 21, 22	34	91	41	1	0	45	17	17	23	22	17	22	45
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	9	110	49	0	225	6	22	12	12	22	14	30
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	15	93	60	0	56	8	16	17	13	16	17	15
Fleetwood (Cup Anr.) ..	109	44	—	—	—	17	6	63	80	19	0	23	13	17	21	—	—	—	—
Southport	80	62	48	—	—	17, 19	6	109	47	6	0	45	12	17	13	19	17	13	50
Holyhead	60	40	‡	—	—	16, 17, 22	45	45	53	25	0	67	17	17	10	23	17	10	20
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	22	4	16 to 22	68	70	19	7	0	225	18	22	5	26	22	5	30
Plymouth	185	88	2	—	—	19, 21, 22	13	90	62	3	0	—	14	22	5	21	22	5	25
Lyme Regis	556	61	‡	—	—	18, 19, 21, 22	15	63	47	34	9	—	15	19	7	18	19	8	35
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	16, 17, 19, 22	45	43	72	8	0	45	15	17	20	—	—	—	—
Quilty	100	40	‡	—	—	19	5	77	67	19	0	—	16	19	7	22	19	6	30
Cahirciveen (Val. Obs.)	98	41	‡	—	—	16 to 19, 21	18	109	32	9	0	110	16	19	4	25	19	2	55
Weaver Pt.	160	30	‡	—	—	16 to 19, 21, 22	38	89	38	1	2	—	17	19	5	23	19	4	0
11. ENGLISH CHANNEL.																			
Scilly	150	32	‡	19	3	16 to 22	53	58	44	10	0	135	17	19	2	24	19	4	45

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
Standard mounting § Direction from the Robinson Anemometer at Falmouth Observatory.
* Above tops of trees.
** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

EIGHTH WEEK of 1919—February 16th to February 22nd, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	49	11	77·0	71·9	74·5	− 2·1	0	− 7	51	+ 18	5	0	0·72	18	− 6	1·3	−1·0	14	994
Eastern.																			
1. SCOTLAND, EAST ...	45	12	76·2	72·3	74·3	− 1·8	0	− 8	54	+ 14	5	+ 1	0·81	21	+ 8	0·4	−2·3	4	993
2. ENGLAND, N.E.	51	26	78·3	74·7	76·6	− 0·2	0	− 10	25	− 7	6	+ 2	1·33	34	+ 26	0·2	−2·6	2	991
3. ENGLAND, EAST ...	53	27	79·9	75·3	77·6	+ 0·7	7	− 5	23	− 11	7	+ 4	2·00	51	+ 44	0·2	−2·8	2	991
4. MIDLAND COUNTIES ...	52	24	78·8	74·7	76·8	+ 0·1	1	− 12	25	− 11	6	+ 3	2·08	53	+ 44	0·2	−2·4	2	990
5. ENGLAND, S.E.	52	28	81·5	76·6	79·1	+ 1·6	21	+ 7	10	− 18	7	+ 4	1·70	43	+ 33	0·2	−2·8	2	990
Western.																			
6. SCOTLAND, WEST ...	48	19	78·3	73·8	76·1	− 1·1	0	− 9	32	+ 3	4	0	0·66	17	− 5	0·8	−1·4	8	993
7. ENGLAND, N.W.	52	25	79·1	74·9	77·0	− 0·3	3	− 7	24	− 4	6	+ 2	0·89	23	+ 9	1·0	−1·8	10	990
8. ENGLAND, S.W.	54	18	81·0	76·3	78·7	+ 0·8	19	+ 3	11	− 12	7	+ 3	2·54	65	+ 50	1·0	−2·0	10	989
9. IRELAND, NORTH ...	53	25	80·0	74·9	77·5	− 0·6	7	− 7	26	+ 2	5	+ 1	0·56	14	− 3	1·4	−1·1	14	989
10. IRELAND, SOUTH ...	56	25	81·4	76·0	78·7	0·0	21	+ 1	13	− 7	5	+ 1	0·72	18	− 2	1·4	−1·5	14	988
11. ENGLISH CHANNEL ...	53	37	82·9	78·7	80·8	+ 1·1	29	+ 5	0	− 9	6	+ 2	2·20	56	+ 42	1·3	−2·2	13	989

THE SEASON (Winter).—Aggregates, &c., for the Period of 12 Weeks, December 1st, 1918, to February 22nd, 1919.

0. SCOTLAND, NORTH ...	59	11	78·4	73·5	76·0	− 0·5	69	− 19	456	+ 53	54	− 9	10·55	269	−122	1·2	+0·1	16	1004
Eastern.																			
1. SCOTLAND, EAST ...	59	5	78·0	72·8	75·4	− 0·6	66	− 21	534	+ 51	52	+ 3	7·30	186	+ 1	1·4	−0·2	18	1005
2. ENGLAND, N.E.	60	11	79·0	74·3	76·7	− 0·1	98	− 10	398	+ 8	57	+11	8·04	205	+ 76	1·3	−0·3	16	1007
3. ENGLAND, EAST ...	59	10	79·5	74·3	77·0	+ 0·3	139	+ 18	416	0	60	+12	8·03	205	+ 74	1·3	−0·5	16	1010
4. MIDLAND COUNTIES ...	59	9	79·3	74·1	76·8	+ 0·1	134	+ 1	434	− 1	58	+10	9·22	235	+ 79	1·3	−0·3	16	1009
5. ENGLAND, S.E.	59	16	80·3	75·4	78·0	+ 0·4	223	+ 54	314	− 7	62	+16	9·10	231	+ 58	1·5	−0·4	17	1010
Western.																			
6. SCOTLAND, WEST ...	57	14	79·2	74·8	77·1	− 0·2	99	− 27	334	+ 12	59	+ 2	12·51	318	− 15	1·1	−0·2	14	1007
7. ENGLAND, N.W.	58	16	79·7	75·2	77·6	+ 0·2	135	+ 2	317	+ 2	59	+ 8	10·37	262	+ 45	1·3	−0·2	17	1007
8. ENGLAND, S.W.	59	15	80·7	76·1	78·4	+ 0·1	238	+ 29	242	+ 1	64	+11	15·21	388	+115	1·8	0·0	21	1009
9. IRELAND, NORTH ...	60	23	80·6	75·8	78·3	+ 0·3	179	+ 13	242	− 33	62	+ 2	10·06	253	+ 7	1·8	+0·2	22	1004
10. IRELAND, SOUTH ...	60	23	81·5	76·5	79·1	+ 0·3	267	+ 16	187	− 27	62	+ 5	12·85	327	+ 47	1·9	+0·1	23	1006
11. ENGLISH CHANNEL ...	57	26	82·3	78·5	80·5	+ 0·3	363	+ 35	78	− 9	66	+ 7	14·97	380	+147	1·9	−0·4	21	1010

THE YEAR 1919.—Aggregates, &c., for the Period of 8 Weeks, December 29th, 1918, to February 22nd, 1919.

0. SCOTLAND, NORTH ...	50	11	77·4	72·4	75·0	− 1·4	4	− 49	372	+ 87	32	− 9	5·28	135	−116	1·4	+0·1	18	1006
Eastern.																			
1. SCOTLAND, EAST ...	51	5	76·9	71·7	74·4	− 1·5	0	− 56	424	+ 90	34	+ 2	5·24	134	+ 20	1·4	−0·4	18	1007
2. ENGLAND, N.E.	53	11	77·6	73·1	75·4	− 1·2	7	− 63	333	+ 60	38	+ 8	5·57	143	+ 66	1·4	−0·5	16	1007
3. ENGLAND, EAST ...	55	10	78·0	72·9	75·6	− 0·9	31	− 45	360	+ 67	37	+ 6	5·35	136	+ 57	1·4	−0·7	17	1009
4. MIDLAND COUNTIES ...	56	9	77·6	72·7	75·2	− 1·3	19	− 66	376	+ 74	35	+ 4	6·19	157	+ 63	1·4	−0·4	16	1008
5. ENGLAND, S.E.	55	16	78·8	74·0	76·5	− 0·8	76	− 24	277	+ 45	39	+ 9	6·82	173	+ 72	1·6	−0·5	18	1009
Western.																			
6. SCOTLAND, WEST ...	54	14	78·2	73·8	76·0	− 1·1	10	− 66	274	+ 44	34	− 4	6·72	171	− 33	1·2	−0·4	15	1007
7. ENGLAND, N.W.	54	16	78·3	73·9	76·2	− 1·0	18	− 62	272	+ 49	37	+ 4	4·99	125	− 7	1·6	−0·2	18	1006
8. ENGLAND, S.W.	56	15	79·2	74·7	77·0	− 1·0	74	− 52	225	+ 46	40	+ 6	9·61	245	+ 88	2·1	0·0	23	1007
9. IRELAND, NORTH ...	53	23	79·4	74·8	77·2	− 0·6	48	− 60	204	+ 11	38	− 1	5·52	139	− 14	1·9	+0·1	23	1004
10. IRELAND, SOUTH ...	56	23	80·4	75·5	78·0	− 0·6	99	− 61	164	+ 12	39	+ 2	7·29	186	+ 14	2·1	+0·1	24	1005
11. ENGLISH CHANNEL ...	56	26	81·2	77·3	79·3	− 0·5	147	− 46	78	+ 8	42	+ 4	11·03	279	+145	2·1	−0·4	23	1008
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: COL. H. G. LYONS, R.E., F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: February 28th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. *Vol. XXXVI. (New Series.)* } No. 9.

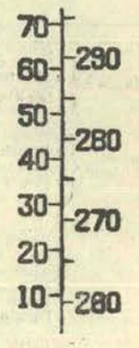
THE NINTH WEEK OF 1919.

SUNDAY, FEBRUARY 23RD, TO SATURDAY, MARCH 1ST, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

Shallow low-pressure systems dominated the weather over the British Isles during the week, with moderate temperature and light rainfall, bright sunshine being scanty in the East and South but abundant in the West and North. The prevailing winds were mostly from between East and North, and generally light or moderate in force, but in Shetland they were frequently strong from South-East. The mean temperature was below the normal in all districts, the largest divergence, about 2 a., being over Ireland. The maxima on the first two days were about 280 a., but on the 26th and 27th over the inland parts of Great Britain they failed to exceed 276 a., and in the Scottish Highlands they did not go beyond 274 a. On Saturday, March 1st, a wave of warm air was spreading rather fitfully over the country from the westward, and the thermometer rose to 283 a. and above in the western districts, the absolute highest being 286 a. at Killarney. The lowest minima occurred on various dates and were below the freezing point in all Districts except the English Channel; the lowest individual values were, in the screen, 266 a. at Phœnix Park, Dublin, 265 a. at Buxton, and 264 a. at Balmoral, and, on the grass, 262 a. at Blackpool, 264 a. at Rhayader, and 260 a. at Balmoral. In the English Channel the total precipitation was slightly in excess of the normal, but in all other Districts it was below. In Scotland there were snow showers, and "snow lying" was reported nearly all the week. There was hail at Newquay on the 26th and at Guernsey on the 27th. Bright sunshine was deficient over the greater part of England, but in Scotland and Ireland there was an excess; in Ireland N. the daily mean was 5·2 hr., against a normal of 2·5 hr. A fine display of Aurora was witnessed on the night of the 27th all over Scotland and Ireland and on some parts of the western English coast; the phenomenon was repeated in Scotland on the following night. Solar halos were reported at Oxford on February 23rd, 24th and March 1st, and at Aberdeen on the latter date, and the Zodiacal Light was noticed at Armagh and at Oxford at the end of the week.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	20	3·5	7	1·9	7	1·8	5	3·1	6	4·4	12	4·6	10	4·7	6	3·5
North	3	0·7	13	3·8	14	2·6	15	2·8	19	4·4	15	4·3	13	3·7	11	1·6
West	11	3·2	12	3·5	10	2·6	8	2·1	7	3·8	11	2·9	11	4·2	2	2·0
East	11	4·0	8	2·9	9	3·6	12	2·3	17	3·3	16	6·0	13	3·8	19	4·3
Calm	3	—	6	—	7	—	7	—	3	—	0	—	1	—	7	—

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ... Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate	Deficient	Deficient	Moderate
Rainfall ...	Moderate	Moderate	Moderate	Moderate	Light	Moderate	Light	Light	Light	Light	Light	Moderate
Sunshine ...	Abundant	Moderate	Moderate	Scanty	Scanty	Scanty	Very abundant	Abundant	Abundant	Very abundant	Abundant	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

WINTER. 13 weeks from Dec. 1st, 1918. Warmth ...	2, 5, 6	2, 6, 5	2, 7, 4	4, 5, 4	2, 7, 4	5, 4, 4	2, 8, 3	2, 7, 4	3, 6, 4	3, 8, 2	2, 7, 4	4, 5, 4
Rainfall ...	1, 8, 4	4, 7, 2	6, 4, 3	7, 4, 2	6, 4, 3	4, 7, 2	3, 6, 4	6, 3, 4	8, 2, 3	5, 4, 4	6, 4, 3	8, 4, 1
Sunshine ...	6, 4, 3	4, 5, 4	2, 6, 5	1, 6, 6	4, 2, 7	2, 4, 7	3, 6, 4	4, 5, 4	4, 6, 3	7, 3, 3	4, 6, 3	2, 4, 7

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of ⅘° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(22028—19.) Wt. 199—789. 625. 3/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.				
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average
	Ft.	°F.		°F		°F.	°F.	°F	°F		in	mm	mm.		hr.	hr.	°/c.		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																							
a, Islands .. a Lerwick ..	468	?41	1st	31	26, 27	38·3	33·6	36·0	- 0·3	6	0·95	24	+ 7										
a Houton Bay	—	42	24, 25	31	27, 28	40·0	33·9	37·0	—	—	—	—	—										
a Stornoway	51	45	23 25, 28	31	28th	44·6	34·1	39·4	+ 0·7	5	1·81	46	+ 23	Deerness	—	—	—	•	•	•	•	•	•
a Castlebay, Barra Isd.	37	47	1st	37	24, 27, 28	45·0	38·3	41·7	—	5	0·39	10	—	Stornoway	3·1	+ 0·5	31	•	•	•	•	•	•
														Castlebay	5·0	—	49	•	•	•	•	•	•
b, Mainland. a Wick	81	45	28th	29	28th	41·7	32·7	37·2	- 0·7	6	0·41	10	- 2										
a Strathpeffer	125	45	28th	25	28th	42·0	31·0	36·5	- 1·3	2	0·18	5	- 9										
p Glencarron	500	—	—	—	—	—	—	—	—	—	—	—	—	Fort Augustus	—	—	—	•	•	•	•	•	•
a Fort Augustus	6*	48	1st	22	28th	43·0	30·0	36·5	- 1·5	2	0·18	5	- 16										
p Fort William	171	45	23rd	25	28th	42·7	31·1	36·9	- 2·1	2	0·52	13	- 24										
1. SCOTLAND, E.																							
a Nairn	82	45	1st	27	28th	41·9	30·9	36·4	- 1·3	4	0·28	7	- 4	Nairn	3·4	—	33	•	•	•	•	•	•
p Gordon Castle	101	45	24, 28	29	25, 28	41·3	31·9	36·6	- 1·9	4	0·29	7	- 5	Gordon Castle	3·1	—	30	•	•	•	•	•	•
a Aberdeen	46	45	28th	28	28, 1	41·4	32·4	36·9	- 1·5	5	0·61	15	+ 2	Aberdeen	2·8	- 0·1	27	4	21	•	•	38·3	-1·3
a Balmoral	930	40	28, 1	15	28th	37·4	24·7	31·1	- 3·3	2	0·11	3	- 13	Balmoral	•	•	•	6	9	•	•	•	•
p Crieff	432	46	23rd	23	28th	42·3	29·6	36·0	- 2·2	1	0·33	8	- 11	Crathes	2·6	- 0·3	25	5	17	32·9	-4·0	35·9	-2·1
a Dundee	244	47	24th	25	28th	42 0	29·3	35·7	- 2·1	4	0·27	7	- 4	Dundee	3·2	—	31	5	19	33·4	•	•	•
a Leith	30	45	23, 1	29	1st	42·3	31·9	37·1	- 2·4	2	0·35	9	0	Leith	—	—	—	4	23	•	•	•	•
p Edinburgh	441	44	23rd	29	1st	40·6	31·6	36·1	- 2·2	5	0·43	11	+ 1	Edinburgh	2·6	—	25	4	24	•	•	•	•
a West Linton	769	48	1st	21	25th	41·3	29·3	35·3	0·0	4	0·57	14	—	West Linton	2·4	—	23	3	19	•	•	•	•
p Marchmont	498	45	24, 28	25	1st	42·0	30·3	36·2	- 1·1	4	0·92	23	+ 9	Marchmont	2·4	- 0 3	23	•	•	•	•	•	•
6. a, SCOTLAND, W.																							
a Ford (Argyll)	149	48	24th	25	24th	44·4	31·3	37·9	—	3	0·69	17	—	Ford (Argyll)	•	•	•	6	12	36·5	•	38·7	•
p Glasgow Observatory	180	46	23rd	27	28th	42·3	31·6	37·0	- 2·3	1	0·09	2	- 13	Glasgow	3·2	+ 1·2	31	5	18	•	•	•	•
p Rothesay	200	45	23, 28	28	28th	42·9	32·9	37·9	- 2·1	2	0·18	5	- 16	Rothesay	4·4	—	43	5	20	37·1	•	40·0	—
a Kilmarnock	90	47	23, 24, 28	23	28th	44·9	29·3	37·1	- 1·7	2	0·04	1	- 15	Kilmarnock	3·6	—	35	•	•	36·6	•	40·0	—
a Colmonell	170	48	24th	23	25, 28	46·3	28·7	37·5	- 1·8	2	0·13	3	- 17	Colmonell	•	•	•	6	19	•	•	•	•
p Cally, Gatehouse	120	52	24th	22	28th	47·0	29·0	38·0	- 1·1	1	0·10	3	- 19	Dumfries	4·7	—	45	6	16	37·2	-2·4	39·4	-1·4
p Dumfries	160	48	23rd	25	28th	43·7	29·6	36·7	- 2·5	1	0·09	2	- 14	Eskdalemuir	3·3	—	32	6	12	•	•	•	•
a Eskdalemuir	794	44	24th	19	28, 1	40·4	25·7	33·1	—	3	0·35	9	—										
b. I. OF MAN p Douglas	277	46	23, 24, 28	30	28th	44·4	34·4	39·4	- 1·2	1	0·07	2	- 15	Douglas	6·8	+ 3·6	65	6	24	•	•	•	•
2. ENGLAND, N.E.																							
a North .. a Alnwick Castle	210	45	24, 28	25	1st	42·7	31·9	37·3	- 1·4	4	0·62	16	0										
a Tynemouth	71	47	24th	32	24, 25, 1	43·1	33·6	38·4	- 0·8	4	0·33	8	- 4	Cockle Park	3·0	- 0·1	29	5	20	35·6	-1·9	37·9	-1·7
p Durham	336	46	24th	26	1st	42·9	30·7	36·8	- 1·5	4	0·32	8	- 4	Durham	2·6	- 0·1	25	6	14	•	•	•	•
p Rounton	249	45	24, 28	27	25, 1	43·1	32·3	37·7	- 0·5	5	0·41	10	- 2	Rounton	•	•	•	5	16	37·1	•	•	•
a West Witton	605	49	24th	26	1st	42·9	31·4	37·2	—	4	0·23	6	—	West Witton	•	•	•	6	22	34·1	•	36·9	•
a Scarborough	100	—	—	—	—	—	—	—	—	3	0·14	4	- 9	Scarborough†	3·4	+ 0·6	33	•	•	•	•	39·5	•
p York	56	46	24, 28, 1	29	25th	44·3	32·7	38·5	- 1·1	2	0·06	2	- 10	York	2·2	- 0·2	21	—	—	38·4	-0·9	39·8	-1·3
b, South .. a Spurn Head	26	43	24th	33	25th	41·3	35·4	38·4	- 1·0	4	0·48	12	+ 2	Spurn Head	1·5	—	14	•	•	•	•	•	•
a Lincoln	58	47	1st	31	24, 25	44·3	33·7	39·0	- 0·5	3	0·05	1	- 10	Lincoln	•	•	•	6	26	37·7	-0·5	39·2	-1·3
a Fulbeck	180	47	24th	29	25, 26	43·7	32·7	38·2	- 1·2	6	0·20	5	- 7	Fulbeck	2·4	- 0·7	23	•	•	—	—	•	•
														Skegness	2·2	- 1·1	21	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	47	26th	31	1st	43·1	34·9	39·0	- 0·3	6	0·51	13	+ 4	Cromer	1·9	- 1·2	18	•	•	•	•	•	•
a Little Massingham	280	45	26, 1	28	1st	42·7	31·9	37·3	- 1·8	5	0·45	12	0	Lit. Massingham	2·4	- 0·3	23	•	•	•	•	•	•
a Yarmouth	13	44	23, 24, 27	31	26th	42·9	34 7	38·8	- 0·1	2	0·25	6	- 4	Yarmouth	2·3	—	22	2	26	41·1	+1·0	42·3	-0·6
a Norwich	93	47	1st	28	25, 1	44·1	34·0	39·1	- 0·4	3	0·34	9	- 3	Norwich	1·3	—	12	2	23	37·5	•	•	•
a Geldeston	37	46	27th	25	25th	44·7	32·9	38·8	- 0·8	4	0·19	5	- 5	Geldeston	1·4	- 1·5	13	•	•	•	•	•	•
p Cambridge	41	48	23rd	29	24, 26	43·9	32·4	38·2	- 1·5	2	0·42	11	+ 2	Cambridge	1·0	- 1·9	9	4	21	39·1	-1·2	40·6	-1·8
a Clacton-on-Sea	54	46	23rd	33	24th	43·7	35·9	39·8	+ 0·7	2	0·33	8	- 1	Clacton	2·6	- 0·6	25	3	24	41·2	-0·1	42·4	-1·3
a Rothamsted	424	45	1st	29	24, 26	41·6	32·4	37·0	- 2·0	2	0·32	8	- 5	Rothamsted	1·2	- 1·6	11	4	21	37·6	•	•	•
p Tottenham	51	47	23, 24, 1	32	25, 26	44·7	36·0	40·4	—	2	0·20	5	—	Tottenham	0·9	—	8	2	29	•	•	40·5	-2·9
4. MIDLAND COUNTIES.																							
c North .. a Harrogate	479	46	23, 1	29	25, 28	43·0	31·7	37·4	- 0·8	2	0·06	2	- 12	Harrogate	3·3	+ 0·5	32	6	21	36·8	-1·9	38·1	-1·8
p Sheffield	429	46	23, 28	30	25th	42·7	33·3	38·0	—	1	0·02	1	—	Sheffield	2·3	- 0·2	22	6	25	35·4	-3·3	38,9	-1·8
p Buxton	987	44	23rd	18	24th	40·0	27·7	33·3	—	2	0·04	1	- 25	Buxton	2·0	—	19	6	18	32·9	-5 3	37·6	-3·1
b, East .. a Bawtry	65	47	23rd	27	25th	44·4	32·3	38·4	- 1·3	2	0·02	1	- 9	Worksop	2·3	- 0·1	22	6	18	38·0	•	39·3	•
a Nottingham	82	47	28th	30	25th	44·1	34·0	39·1	- 0·4	3	0·06	1	- 9	Nottingham	1·6	- 0·9	15	4	24	35·9	-2·9	36·9	-2 8
p Birmingham, Edgbsn.	535	45	23, 1	31	25th	41·4	33·0	37·2	- 2·2	1	0·04	1	- 11	Birmingham	0·5	- 1·6	5	7	24	38·0	-2·3	41·6	-1·8
a Raunds	203	47	1st	26	25th	43·4	32·3	37·9	- 1·4	3	0·13	3	- 7	Raunds	1·2	—	11	6	17	38·4	•	42·0	—
p Oxford	208	47	1st	28	26th	43·9	33·4	38·7	- 1·5	1	0·01	0	- 11	Oxford	2·2	- 0·6	21	5	18	•	•	•	•
c West .. a Cheadle (N. Staffs.)	646	46	1st	28	25th	42·1	31·6	36·9	- 1·4	0	0·00	0	- 15	Malvern	3·1	—	29	6	23	36·0	—	38·3	—
p Tenbury	313	47	23rd	24	25th	42·9	29·0	36·0	- 4·0	1	0·03	1	- 9	Cheadle	•	•	•	6	24	•	•	•	•
p Ross-on-Wye	201	51	23rd	26	26th	45·3	31·7	38·5	- 1·9	1	0·02	1	- 11	Tenbury	•	•	•	7	20	36·8	•	•	•
a Clifton	229	49	1st	30	28th	43·0	34·4	38·7	- 2.2	1	0·01	0·3	- 18	Ross-on-Wye	2·5	—	24	6	21	—	—	•	•
														Clifton	3·1	—	29	2	26	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	50	1st	27	26th	44·0	32·3	38·2	- 0·5	3	0·11	3	- 13	Worthing	2·2	- 1·4	21	0	32	41·5	-0.4	42·7	-1·2
p Salisbury (Wilton)	180	49	23, 24	28	1st	45·6	32·0	38·8	- 0·6	5	0·39	10	- 8	Marlborough	2·0	- 0·5	19	5	19	40·3	•	42·8	—
a Wisley, Surrey	150	48	1st	30	26th	44·1	34·3	39·2	- 0·5	4	0·22	6	- 6	Salisbury	•	•	•	4	24	40·3	•	•	•
a Tunbridge Wells	354	47	24th	30	26th	43·6	34·9	39·3	- 0·1	1	0·11	3	- 13	Wisley	0·6	- 2·2	6	4	19	39·8	-0·9	40·9	-1·6
a Margate	51	46	23, 1	34	26th	43·4	37·6	40·5	+ 0·1	3	0·20	5	- 5	Tunbridge Wells	0·6	- 2·5	6	3	21	41·1	+2·3	42·0	—
														Margate	1·3	- 1·8	12	2	25	41·8	+0·2	42·1	-1·1
a Dungeness	21	49	23rd	32	26th	44·3	36·1	40·2	+ 0·3	3	0·49	12	+ 1	Folkestone	1·4	—	13	•	•	•	•	43·0	—
p St. Leonards	178	48	23rd	36	26, 27	44·0	37·7	40·9	+ 0·5	4	0·31	8	— 6	St. Leonards	1·4	- 2·0	13	1	30	41·1	•	42·1	—
p Southampton	64	49	23rd	31	28th	44·9	35·1	40·0	- 1·6	5	0·29	7	- 8	Southampton	2·3	- 0·8	22	4	24	•	•	•	•
a Ventnor	59	51	23rd	34	28th	45·6	37·4	41·5	- 0·6	4	0·44	11	- 3	Ventnor	2·2	- 1·4	21	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	48	1st	30	26th	44·2	35·6	39·9	- 0·5	2	0·25	6	- 5	Richmond	0·8	- 1·8	8	4	21	39·4	-1·2	40·8	-2·5
a Westminster	27	48	1st	29	26th	44·7	36·1	40·4	- 0·6	2	0·18	5	- 5	Westminster	0·7	- 1·0	7	3	27	•	•	•	•
ag Greenwich	149	48	1st	29	26th	43·9	34·6	39·3	- 1·5	2	0·27	7	- 3	Greenwich	1·0	- 1·5	9	4	22	•	•	•	•
a Hampstead	450	45	1st	31	25th	42·0	34·3	38·2	—	2	0·31	5	—	Hampstead	0·9	—	8	5	21	•	•	•	•
ag Camden Square	110	49	1st	28	26th	45·1	34·1	39·6	- 0·9	2	0·17	4	- 8	Camden Square	1·0	- 1·1	9	4	24	•	•	•	•
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	45	23rd	28	28th	41·3	31·1	36·2	- 2·6	4	0·20	5	- 14	Aspatria	3·3	+ 0·5	32	4	21	37·8	-3·4	40·0	-2·8
p Newton Rigg	55e	45	23, 24	27	25th	42·1	30·4	36·3	- 1·3	3	0·15	4	- 15	Newton Rigg	2·6	- 0·1	25	7	20	37·2	-1·9	38·4	-1 6
p Stonyhurst	375	52	1st	28	25, 28	43·7	31·7	37·7	- 1·1	2	0·09	2	— 20	Stonyhurst	3·5	+ 0·9	34	5	19	•	•	•	•
p Blackpool	66	46	28, 1	27	25th	44·6	32·3	38·5	- 1·1	1	0·04	1	- 13	Blackpool	4 6	+ 1 4	44	6	12	38·6	•	41·2	—
a Southport	37	47	1st	28	26th	43 7	32·3	38·0	- 1·9	2	0·04	1	- 13	Southport	4·0	+ 1·0	39	6	19	36·1	-3·3	38·4	-2·3
														Hoylake	2·9	0·0	28	•	•	•	•	•	•
a Liverpool (Bidston)	188	44	23, 1	32	25, 26	41·9	34·1	38·0	- 2·3	1	0·01	0·2	- 11	Liverpool	2 4	—	23	6	23	•	•	•	•
a Hawarden Bridge	22	53	1st	23	25th	44·1	32·4	38·3	- 2·7	2	0·04	1	- 8	Manchester (City)	0·3	- 1·5	3	5	23	36,1	-3·1	39·7	-2·4
p Manchester (Whit. Pk.)	126	45	23, 1	27	25th	42·1	32·1	37·1	- 3·4	2	0·02	1	- 12	Whitworth Park	0·5	- 1·3	5	•	•	•	•	•	•
b, NORTH WALES.																							
p Llandudno	16	45	1st	27	25th	43·0	32 7	37·9	- 3·7	2	0·03	1	- 12	Llandudno	3·4	+ 0·4	33	•	•	•	•	•	•
a Holyhead	15	49	24th	32	28, 1	46·0	33·9	40·0	- 1·4	1	0·04	1	- 15	Holyhead	6·2	—	60	5	21	•	•	•	•
a Beddgelert	309	47	1st	27	24, 28	44·0	30·7	37·4	—	2	0·51	13	—	Aberdovey	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft Mean.	Deviation from average.	Earth 4 ft Mean.	Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F	°F.		mm.	mm.		hr.	hr	°/₀		°F.	°F.	°F.	°F.	°F.	°F.
8. *a.* SOUTH WALES.																						
a Aberystwyth	59	47	1st	29	28th	44·1	33·3	38·7	—	1	0·03	1	—	Aberystwyth ..	5·0	+ 2·1	47	•	•	•	•	•	•	•
a Rhayader	757	49	1st	23	26th	42·4	28·3	35·4	—	4	0·16	4	—	Rhayader ..	3·7	—	35	5	16	•	•	•	•	•
a St. Ann's Head	149	47	1st	34	25, 26	44·6	35·6	40·1	- 1·8	3	0·28	7	- 10	St. Ann's Head ..	4·2	+ 1·0	40	•	•	•	•	•	•	•
p Cardiff	202	48	1st	29	28th	44·1	32·9	38·5	- 1·9	1	0·11	3	- 17	Cardiff	3·2	—	30	6	17	39·1	-2·0	41·2	-1·8
b. ENGLAND, S.W.																						
a Bath	66	52	1st	29	28th	46·4	32·4	39·4	- 1·3	3	0·11	3	- 11	Bath	•	•	•	•	•	40·6	+0·2	42·2	-1·2
a Shaftesbury	722	47	1st	29	28th	43·1	32·4	37·8	- 1·4	2	0·23	6	- 9	Shaftesbury ..	•	•	•	•	•	39·6	•	40·8	•
a Arlington	613	47	1st	28	28th	43·9	33·3	38·6	- 1·3	2	0·21	5	- 21										
a Newquay	190	50	1st	30	28th	45·7	36·4	41·1	- 2·1	5	0·43	11	- 5	Newquay ..	2·6	- 0·7	24	3	24	44·2	•	45·6	•
a Cullompton	202	54	1st	28	28th	46·9	34·4	40·7	- 0·3	1	0·11	3	- 15	Cullompton ..	2·5	- 0·4	23	4	18	42·4	•	•	•
a Portland Bill	19	47	23, 1	33	28th	44·4	38·9	41·7	- 0·4	4	0·33	8	- 5	Weymouth ..	2·5	—	23	•	•	•	•	•	•
p Plymouth	116	49	28th	31	28th	46·4	37·9	42·2	- 0·4	4	0·33	8	- 11	Plymouth ..	2·1	- 1·2	20	1	24	42·1	-1·1	45·0	•
a Falmouth	167	49	23, 1	31	28, 1	46·1	36·7	41·4	- 1·8	5	0·50	13	- 11	Falmouth ..	2·2	- 1·2	21	2	21	44·4	•	46·0	•
9. IRELAND, N.																						
a West .. { *a* Malin Head	208	46	23, 24, 28	33	1st	44·9	36·7	40·8	- 0·6	4	0·13	3	- 11	Malin Head ..	6·3	—	61	•	•	•	•	•	•
{ *a* Blacksod Point ..	327	48	1st	30	26th	44·6	34·0	39·3	- 3·5	2	0·09	2	- 22	Markree Castle	5·4	+ 2·9	52	7	18	39·8	-2·6	42·9	-0·8
{ *p* Markree Castle ..	122	48	24th	23	24th	46·6	28·3	37·5	- 3·5	3	0·37	9	- 11										
b, East .. { *p* Armagh	196	47	23, 28	‖25	25th	44·4	28·6	36·5	- 4·4	2	0·06	2	- 11	Armagh	4·9	+ 2·4	47	6	16	38·4	-2·7	42·0	-0·9
{ *a* Donaghadee	101	47	28th	29	28th	44·4	33·6	39·0	- 2·5	2	0·12	3	- 10										
10. IRELAND, S.																						
p Dublin, City	47	45	23, 24, 1	28	28th	44·1	32·6	38·4	- 4·4	2	0·04	1	- 11	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
a Birr Castle	175	47	1st	23	1st	45·6	27·0	36·3	- 4·7	2	0·12	3	- 11	Phœnix Park ..	5·0	+ 2·0	47	7	14	•	•	•	•
a Kilkenny	212	48	1st	24	28th	45·7	28·9	37·3	- 4·2	3	0·07	2	- 13	Dublin City ..	•	•	•	7	24	•	•	•	•
a Waterford	120	—	—	—	—	—	—	—	—	—	—	—	—	Birr Castle ..	4·8	+ 2·1	45	7	17	•	•	•	•
p Seskin, Carrick-on-Suir	541	46	27th	29	24th	43·4	31·7	37·6	—	4	0·64	16	—	Seskin	3·7	—	35	5	18	•	•	•	•
a Cahir	199	48	1st	22	28th	44·0	29·0	36·5	- 5·3	2	0·05	1	—										
a Foynes	50	53	1st	26	24th	46·3	29·7	38·0	- 4·9	2	0·05	1	- 18										
a Cahirciveen (Val. Obs.)	30	48	28th	28	27th	47·4	32·9	40·2	- 4·2	3	0·25	6	- 24	Cahirciveen ..	4·2	+ 1·3	40	3	26	•	•	•	•
a Killarney	174	56	1st	29	28th	48·1	31·4	39·8	- 3·5	2	0·12	3	- 27	Ballinacurra ..	—	—	—	•	•	•	•	•	•
a Roche's Point	32	48	1st	31	28, 1	46·1	33·6	39·9	- 3·8	4	0·61	15	- 5										
11. ENGLISH CHANNEL.																						
a Scilly, St. Mary's ..	131	51	1st	37	28th	47·6	40·1	43·9	- 1·1	5	0·55	14	- 1	Scilly	1·8	- 1·8	17	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	50	23rd	35	1st	47·3	39·3	43·3	- 0·1	6	0·79	20	+ 5	St. Helliers ..	2·4	- 1·5	23	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	51	23rd	35	28th	47·6	40·4	44·0	+ 0·1	6	0·61	15	- 11	Guernsey† ..	2·2	- 1·5	21	1	30	44·1	-0·3	45·0	-0·5

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, March 1st, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	22, 23	7	42	101	18	0	90	13	22	8	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	4	102	23	39	—	7	1	24	17	1	21	30
Aberdeen	153	105	52	—	—	—	—	59	66	43	0	169	11	1	20	20	1	19	55
Edinburgh	485	39	31	—	—	—	—	53	97	18	0	180	11	1	24	18	1	24	0
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	—	—	60	53	55	0	{ 40	10	26	14	17	26	14	25
												{ 10	10	27	9				
Paisley	188	81	15	—	—	—	—	15	97	56	0	180	9	1	23	16	1	23	15
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	9	102	57	0	191	8	1	22	14	1	21	15
South Shields	72	61	12	—	—	—	—	38	117	13	0	45	8	26	20	13	1	22	10
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	26	1	26	113	28	0	23	12	26	23	—	—	—	—
Gorleston	52	42	‡	—	—	—	—	30	120	18	0	113	10	1	23	13	26	23	5
Shoeburyness	103	90	‡	—	—	—	—	73	82	13	0	124	9	1	17	12	27	12	5
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	31	85	52	0	157	9	1	13	14	1	13	55
5. ENGLAND, S.E.																			
Warlingham	642	33	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Brighton	261	53	6	—	—	—	—	49	103	16	0	—	8	1	11	13	1	13	30
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	1	4	72	89	3	0	145	12	1	12	16	1	12	20
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	—	77	91	0	158	5	1	14	10	1	13	45
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	3	57	108	0	157	7	1	23	13	1	22	50
Fleetwood (Cup Anr.) ..	109	44	—	—	—	23, 1	5	46	101	16	0	304	12	23	7	—	—	—	—
Southport	80	62	48	—	—	23	3	84	61	20	0	315	14	23	7	17	23	6	55
Holyhead	60	40	‡	—	—	23, 26	6	85	45	32	0	304	12	23	3	16	23	3	5
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	24, 25, 28, 1	29	58	60	21	0	135	15	1	8	19	1	7	40
Plymouth	185	88	2	—	—	1	2	24	93	25	24	—	12	1	9	17	1	8	40
Lyme Regis	556	61	‡	—	—	28, 1	12	38	73	39	6	—	13	1	9	17	1	8	55
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	23, 1	4	86	73	5	0	169	13	1	11	—	—	—	—
Quilty	100	40	‡	—	—	25, 1	4	47	85	32	0	—	12	1	8	18	1	7	40
Cahirciveen (Val. Obs.)	98	41	‡	—	—	1	2	54	81	28	3	105	12	1	4	20	1	4	0
Weaver Pt.	160	30	‡	—	—	25, 28, 1	24	70	70	2	2	—	13	1	1	18	1	5	25
1. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	27, 28, 1	15	71	73	9	0	135	14	28	24	20	1	0	50

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.] * Above tops of trees.
Standard mounting § Direction from the Robinson Anemometer at Falmouth Observatory. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

NINTH WEEK of 1919—February 23rd to March 1st, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Temperature of the Air. At any "D.-V." Station. Lowest	Temperature of the Air. Means of. Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	48	22	78·5	72·8	75·7	− 0·7	0	− 6	36	+ 1	4	− 1	0·71	18	− 6	3·1	+0·5	33	1006
Eastern.																			
1. SCOTLAND, EAST ...	48	15	78·1	71·9	75·1	− 1·0	0	− 7	44	+ 4	3	− 1	0·43	11	− 2	2·8	+0·1	27	1006
2. ENGLAND, N.E.	47	25	79·2	73·5	76·3	− 0·6	3	− 9	32	0	4	0	0·29	7	− 5	2·6	−0·3	25	1005
3. ENGLAND, EAST ...	48	25	79·4	74·1	76·7	− 0·4	4	− 11	29	− 5	3	− 1	0·33	9	− 1	1·7	−1·2	16	1005
4. MIDLAND COUNTIES ...	51	24	79·3	73·2	76·3	− 0·8	4	− 12	35	+ 1	2	− 2	0·04	1	− 11	2·2	−0·4	21	1005
5. ENGLAND, S.E.	51	27	79·9	74·8	77·4	− 0·3	7	− 10	25	− 3	3	− 1	0·28	7	− 6	1·5	−1·6	14	1005
Western.																			
6. SCOTLAND, WEST ...	52	22	79·9	72·4	76·2	− 1·0	7	− 3	41	+ 12	2	− 2	0·17	4	− 17	5·0	+2·4	48	1007
7. ENGLAND, N.W.	53	23	79·2	73·2	76·2	− 1·2	3	− 9	35	+ 8	2	− 2	0·07	2	− 14	3·3	+0·6	31	1006
8. ENGLAND, S.W.	54	23	80·1	74·3	77·2	− 1·0	8	− 10	29	+ 7	3	− 1	0·24	6	− 14	3·2	+0·2	30	1005
9. IRELAND, NORTH ...	48	23	80·3	72·7	76·5	− 1·8	9	− 7	40	+ 18	3	− 2	0·15	4	− 15	5·2	+2·7	50	1006
10. IRELAND, SOUTH ...	56	22	80·7	72·2	76·5	− 2·4	11	− 11	43	+ 27	2	− 2	0·16	4	− 16	4·7	+1·8	44	1006
11. ENGLISH CHANNEL ...	51	35	81·6	77·4	79·5	− 0·2	21	− 3	6	− 2	6	+ 2	0·65	17	+ 1	2·1	−1·6	20	1005

THE SEASON (Winter).—Aggregates, &c., for the Period of 13 Weeks, December 1st, 1918, to March 1st, 1919.

0. SCOTLAND, NORTH ...	59	11	78·4	73·5	76·0	− 0·5	69	− 25	492	+ 54	58	−10	11·26	287	−128	1·3	+0·1	18	1004
Eastern.																			
1. SCOTLAND, EAST ...	59	5	78·0	72·7	75·4	− 0·6	66	− 28	578	+ 55	55	+ 2	7·73	197	− 1	1·5	−0·2	19	1005
2. ENGLAND, N.E.	60	11	79·0	74·2	76·7	− 0·1	101	− 19	430	+ 8	61	+11	8·33	212	+ 71	1·4	−0·3	17	1007
3. ENGLAND, EAST ...	59	10	79·5	74·3	77·0	+ 0·3	143	+ 7	445	− 5	63	+11	8·36	214	+ 73	1·4	−0·5	16	1009
4. MIDLAND COUNTIES ...	59	9	79·3	74·1	76·7	0·0	138	− 11	469	0	60	+ 8	9·26	236	+ 68	1·4	−0·3	16	1008
5. ENGLAND, S.E.	59	16	80·3	75·4	77·9	+ 0·3	230	+ 44	339	− 10	65	+15	9·38	238	+ 52	1·5	−0·5	17	1009
Western.																			
6. SCOTLAND, WEST ...	57	14	79·3	74·6	77·0	− 0·3	106	− 30	375	+ 24	61	0	12·68	322	− 32	1·4	0·0	18	1007
7. ENGLAND, N.W.	58	16	79·7	75·1	77·4	0·0	138	− 7	352	+ 10	61	+ 6	10·44	264	+ 31	1·5	−0·1	18	1007
8. ENGLAND, S.W.	59	15	80·6	75·9	78·3	0·0	246	+ 19	271	+ 8	67	+10	15·45	394	+101	1·9	0·0	22	1008
9. IRELAND, NORTH ...	60	23	80·5	75·6	78·1	+ 0·1	188	+ 6	282	− 15	65	0	10·21	257	− 8	2·0	+0·4	25	1004
10. IRELAND, SOUTH ...	60	22	81·4	76·2	78·9	+ 0·1	278	+ 5	230	0	64	+ 3	13·01	331	+ 31	2·2	+0·3	25	1006
11. ENGLISH CHANNEL ...	57	26	82·2	78·4	80·4	+ 0·3	384	+ 32	84	− 11	72	+ 9	15·62	397	+148	1·9	−0·5	21	1010

THE YEAR 1919.—Aggregates, &c., for the Period of 9 Weeks, December 29th, 1918, to March 1st, 1919.

0. SCOTLAND, NORTH ...	50	11	77·5	72·5	75·1	− 1·3	4	− 55	408	+ 88	36	−10	5·99	153	−122	1·6	+0·2	20	1006
Eastern.																			
1. SCOTLAND, EAST ...	51	5	77·0	71·7	74·4	− 1·6	0	− 63	468	+ 94	37	+ 1	5·67	145	+ 18	1·6	−0·4	19	1006
2. ENGLAND, N.E.	53	11	77·8	73·2	75·5	− 1·1	10	− 72	365	+ 60	42	+ 8	5·86	150	+ 61	1·5	−0·5	17	1007
3. ENGLAND, EAST ...	55	10	78·2	73·1	75·7	− 0·9	35	− 56	389	+ 62	40	+ 5	5·68	145	+ 56	1·5	−0·7	17	1009
4. MIDLAND COUNTIES ...	56	9	77·8	72·7	75·3	− 1·3	23	− 78	411	+ 75	37	+ 2	6·23	158	+ 52	1·5	−0·4	17	1008
5. ENGLAND, S.E.	55	16	78·9	74·0	76·6	− 0·7	83	− 34	302	+ 42	42	+ 8	7·10	180	+ 66	1·6	−0·6	18	1008
Western.																			
6. SCOTLAND, WEST ...	54	14	78·4	73·6	76·1	− 1·0	17	− 69	315	+ 56	36	− 6	6·89	175	− 50	1·6	−0·1	19	1007
7. ENGLAND, N.W.	54	16	78·4	73·8	76·2	− 1·0	21	− 71	307	+ 57	39	+ 2	5·06	127	− 21	1·8	−0·1	20	1006
8. ENGLAND, S.W.	56	15	79·3	74·6	77·0	− 1·1	82	− 62	254	+ 53	43	+ 5	9·85	251	+ 74	2·2	0·0	24	1007
9. IRELAND, NORTH ...	53	23	79·5	74·6	77·1	− 0·8	57	− 67	244	+ 29	41	− 3	5·67	143	− 29	2·3	+0·7	27	1005
10. IRELAND, SOUTH ...	56	22	80·4	75·1	77·8	− 0·9	110	− 72	207	+ 39	41	0	7·45	190	− 2	2·4	+0·3	27	1005
11. ENGLISH CHANNEL ...	56	26	81·2	77·3	79·3	− 0·5	168	− 49	84	+ 6	48	+ 6	11·68	296	+146	2·1	−0·6	23	1007
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: COL. H. G. LYONS, R.E., F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: March 7th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 10.

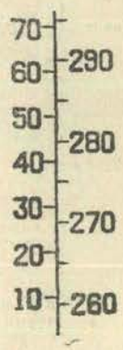
THE TENTH WEEK OF 1919.

SUNDAY, MARCH 2ND, TO SATURDAY, MARCH 8TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

At the commencement of the week a depression was situated off our north-western coasts, and, with isobars running north-eastwards from the Azores to the Arctic, a wave of warm air was experienced over Great Britain. Subsequently, depressions moved across England, the weather became very changeable, and temperature decreased considerably. The mean temperature for the week was about 2 a. below the normal in Scotland and about 1 a. below it over Ireland and in England N.W., but over England as a whole there was an excess of about 1 a. The maxima on Sunday were high over the Kingdom generally, ranging from 284 a. in the north of Scotland to 288 a. at many places in the Midlands and southern and south-eastern England. The warm wave was not felt on our extreme north-western coasts nor over the extreme south-east of England, where, at some stations, temperature was no higher than 281 a. The maxima about the middle of the week were low generally, being 274 a. at West Linton (Pentlands) and about 276 a. over the west Midlands. Minima of 266 a. in the screen were common over Scotland and the north of England on the 4th, and on the same night the thermometer on the grass went down to 263 a. or 262 a. There was a deficiency of rainfall in Scotland and Ireland, but an excess over England; that in England S.E. and S.W., where rain fell each day, was very large; 37mm. fell at Beddgelert on the 6th and 29mm. at Guernsey on the 3rd, while on the three days, 3rd–5th, several stations in England S.E. had between 35mm. and 43mm. Bright sunshine was deficient in all Districts except Scotland N. and E.; at most stations the greater part of the week's total was registered on one or two days. There were displays of aurora in the north of Scotland on the 2nd, 3rd and 6th. Solar halos were seen at Aberdeen on the 7th and at Oxford on the 2nd and 6th, lunar halos at Oxford on the 6th, 7th and 8th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

Wind Component from	Scotland, N.		Edinburgh.		England, E.		London.		North Wales.		England, S.W.		Dublin.		Ireland, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	12	7·3	15	5·0	13	4·0	14	4·0	12	4·8	14	3·8	11	4·7	10	4·4
North	12	5·6	6	1·8	10	4·3	11	2·9	15	2·9	12	4·9	12	3·8	13	3·5
West	17	7·2	17	5·5	13	2·8	17	2·9	16	4·5	18	5·7	18	6·2	12	4·3
East	9	2·0	5	3·9	8	3·0	5	3·8	11	4·8	5	3·7	7	4·1	10	3·2
Calm	1	—	5	—	4	—	2	—	0	—	0	—	0	—	5	—

III.—WARMTH, RAINFALL AND SUNSHINE.

The Week.—Comparison with Normal. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet *See below*, Note (1).

		Districts of the British Isles.											
		Extreme N.	Eastern Section.					Western Section.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Deficient	Moderate	Moderate	Moderate	Unusual	Deficient	Moderate	Moderate	Deficient	Deficient	Unusual
	Rainfall ...	Moderate	Light	Heavy	Heavy	Heavy	Very heavy	Moderate	Very heavy	Very heavy	Moderate	Moderate	Very heavy
	Sunshine ...	Abundant	Abundant	Scanty	Very scanty	Scanty	Scanty	Moderate	Moderate	Moderate	Scanty	Moderate	Moderate

The Season.—Enumeration of the characters of the weeks already elapsed.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SPRING. 1 week from March 2nd, 1919.	Warmth ...	0, 0, 1	0, 0, 1	0, 1, 0	0, 1, 0	0, 1, 0	1, 0, 0	0, 0, 1	0, 1, 0	0, 1, 0	0, 0, 1	0, 0, 1	0, 1, 0
	Rainfall ...	0, 1, 0	0, 0, 1	1, 0, 0	1, 0, 0	1, 0, 0	1, 0, 0	0, 1, 0	1, 0, 0	1, 0, 0	0, 1, 0	0, 1, 0	1, 0, 0
	Sunshine ...	1, 0, 0	1, 0, 0	0, 0, 1	0, 0, 1	0, 0, 1	0, 0, 1	0, 1, 0	0, 1, 0	0, 1, 0	0, 0, 1	0, 1, 0	0, 1, 0

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(22185—19.) Wt. 199—789. 625. 3/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass-Min. Ground Frosts	Grass-Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average
	Ft.	°F.		°F		°F.	°F	°F	°F		in.	mm.	mm.		hr.	hr.	°/c.		°F.	°F.	°F.	°F.
c. SCOTLAND, N.																						
a Lerwick	54	43	6th	27	8th	39·9	29·4	34·5	- 3·2	7	1·26	32	+ 11									
a, Islands .. *a* Houton Bay	—	47	2nd	26	8th	39·9	29·1	34·3	—	—	—	—	—									
a Stornoway	31	45	5th	28	4th	40·9	31·1	35·9	- 2·9	6	1·34	34	+ 6	Deerness ..	—	—	—	•	•	•	•	•
a Castlebay, Barra Isd.	37	46	2,5,8	30	4th	43·4	35·9	39·5	—	5	0·75	19	—	Stornoway ..	3·5	+ 0·5	33	•	•	•	•	•
														Castlebay ..	3·9	—	36	•	•	•	•	•
a Wick	81	47	2nd	24	7th	41·1	28·3	34·5	- 3·7	7	0·36	9	- 6									
b, Main- *a* Strathpeffer	125	48	2nd	20	4th	41·1	27·9	34·3	- 3·8	3	0·30	8	- 10									
land. *p* Glencarron	500	16	2nd	26	7th	40·4	29·3	34·7	- 2·5	5	0·09	23	- 27									
a Fort Augustus.. ..	68	—	—	—	—	—	—	—	—	2	0·25	6	- 19									
p Fort William	171	48	2nd	26	4th	42·6	30·7	36·5	- 2·8	4	1·07	27	- 18									
1. SCOTLAND, E.																						
a Nairn	82	50	2nd	24	8th	41·9	29·3	35·4	- 3·2	4	0·13	3	- 9	Nairn	4·8	—	44	•	•	•	•	•
p Gordon Castle	101	52	2nd	25	8th	43·0	30·0	36·3	- 3·0	2	0·04	1	- 13	Gordon Castle..	4·7	—	43	•	•	•	•	•
a Aberdeen	46	51	2nd	25	4th	42·4	29·0	35·5	- 3·7	1	0·04	1	- 14	Aberdeen ..	4·3	+ 0·5	39	6	13	•	•	33·6	-1·2
a Balmoral	930	46	2nd	19	4th	39·4	23·4	31·2	- 3·9	0	0·00	0	- 19	Balmoral ..	•	•	•	6	15	•	•	•	•
a Crieff	432	50	5th	19	4th	42·0	26·7	34·1	- 5·0	3	0·06	2	- 19	Crathes	4·7	+ 1·4	43	6	14	33·0	-4·5	35·8	-2·6
a Dundee	244	49	2nd	19	4th	41·6	28·0	34·6	- 4·1	1	0·05	1	- 12	Dundee	4·6	—	42	6	14	34·0	•	•	•
a Leith	30	54	2nd	24	4,5	44·1	29·7	36·7	- 4·0	3	0·21	5	- 6	Leith	—	—	—	5	18	•	•	•	•
p Edinburgh	441	50	2nd	23	4th	41·9	30·4	36·0	- 3·0	4	0·23	6	- 5	Edinburgh ..	4·6	+ 0·9	42	6	14	•	•	•	•
a West Linton	769	48	2nd	14	4th	40·1	27·0	33·4	- 2·7	3	0·51	13	—	West Linton ..	3·1	—	28	6	13	•	•	•	•
p Marchmont	498	49	2nd	20	4th	41·6	29·1	35·2	- 2·9	2	0·35	9	- 7	Marchmont .	3·6	+ 0 1	33	•	•	•	•	•	•
6. *a*, SCOTLAND, W																						
a Ford (Argyll)	149	48	5th	20	4th	42·6	30·2	36·2	—	5	0·66	17	—	Ford (Argyll) ..	•	•	•	5	11	36·1	•	38·8	—
p Glasgow Observatory	180	50	2nd	23	4th	41·4	30·1	35·6	- 4·2	5	0·47	12	- 6	Glasgow.. ..	1·9	- 0·5	17	4	16	•	•	•	•
p Rothesay	200	47	5th	26	4th	42·1	31·6	36·7	- 3·8	6	0·61	16	- 8	Rothesay ..	3·4	—	31	5	17	36 3	•	40·0	-2·1
a Kilmarnock	90	51	2nd	22	4th	44·4	30·7	37·4	- 1·9	5	0·68	17	- 2	Kilmarnock ..	3·0	—	28	•	•	36·3	•	40·0	—
a Colmonell	170	49	2,5	20	4th	41·9	30·6	37·5	- 2·4	4	0·54	14	- 9	Colmonell ..	•	•	•	3	17	•	•	•	•
p Cally, Gatehouse ..	120	50	5th	22	4th	44·4	30·7	37·4	- 2·3	4	1·02	26	0	Dumfries ..	3·4	—	31	4	12	36·5	-3·7	39·2	-2·0
p Dumfries	160	48	2nd	20	4th	43·1	30·0	36·4	- 3·4	4	0·48	12	- 7	Eskdalemuir ..	2·9	—	27	6	9	•	•	•	•
a Eskdalemuir	794	44	2,5	14	4th	39·4	22·9	30·9	—	b	0·83	21	—									
b, I. OF MAN *p* Douglas	277	49	2nd	31	4th	44·6	34·7	39·5	- 1·4	5	0·90	23	+ 3	Douglas	2·8	- 1·0	26	4	25	•	•	•	•
2. ENGLAND, N.E																						
a Alnwick Castle ..	210	52	2nd	19	4th	43·4	28·6	35·8	- 3·4	4	0·45	12	- 4									
a Tynemouth	71	52	2nd	25	4,5	43·7	30·7	37·0	- 2·6	2	0·33	8	- 3	Cockle Park ..	3·9	+ 0·3	35	5	17	34·7	-3·0	38·0	-1·8
p Durham	336	54	2nd	20	4th	42·9	28·7	35·6	- 3·3	4	0·55	14	+ 3	Durham ..	3·0	- 0·2	27	5	9	•	•	•	•
a North .. *p* Rounton	249	54	2nd	23	4th	43·7	29·7	36·5	- 2·2	5	0·63	16	+ 5	Rounton ..	•	•	•	4	12	36·9	•	•	•
a West Witton	605	49	2nd	22	4th	42·1	30 0	35·9	—	5	0·96	24	—	West Witton ..	•	•	•	5	19	34·9	•	36·8	•
p Scarborough	100	53	3rd	33	5th	47·4	36·3	41·7	+ 1·2	5	1·15	29	+ 17	Scarborough† ..	2·6	- 0·7	24	•	•	•	•	39·5	•
p York	56	56	2nd	28	6th	46·3	33·4	39·7	- 0·6	4	0·68	17	+ 6	York	2·9	- 0·8	18	—	—	38·6	-1·2	40 1	-1·2
a Spurn Head	26	53	2nd	35	4,5	44·7	36·6	40·5	+ 0·5	4	0·55	14	+ 5	Spurn Head ..	1·1	—	10	•	•	•	•	•	•
b, South .. *a* Lincoln	58	56	2nd	30	6th	47·4	35·0	41·0	+ 0·8	4	0·54	14	+ 4	Lincoln	•	•	•	2	26	38·7	-0·1	39·9	-0·9
a Fulbeck	180	56	2nd	29	6th	46·0	35·0	40·3	+ 0·2	6	0·67	17	+ 6	Fulbeck* ..	2·0	- 1·5	18	•	•	40·0	-1·2	41·3	-1·4
														Skegness ..	1·6	- 2·1	15	•	•	•	•	•	•
3. ENGLAND, E.																						
p Cromer	196	55	2nd	34	4th	45·7	36·3	40·9	+ 0·9	6	0·51	13	+ 4	Cromer	1·5	- 2·1	14	•	•	•	•	•	•
a Little Massingham ..	280	54	2nd	31	4th	44·9	34·9	39·8	- 0·2	6	0·91	23	+ 10	Lit. Massingham	1·6	- 1·6	15	•	•	•	•	•	•
a Yarmouth	13	52	3rd	37	2,4	46·3	38 4	42·2	+ 2·6	6	0·74	19	+ 8	Yarmouth ..	1·4	—	13	0	34	41·6	+0·6	43·0	-0·2
a Norwich	93	54	2nd	33	4th	46·4	38·0	42·1	+ 1·7	6	0·89	23	+ 11	Norwich ..	1 3	—	12	2	29	39·1	•	•	•
a Geldeston	37	54	2,3	33	2nd	48·1	36·9	42·3	+ 2·0	6	0·80	20	+ 9	Geldeston ..	1·4	- 2·0	13	•	•	•	•	•	•
p Cambridge	41	58	2nd	35	6th	48·6	38·3	43·3	+ 2·8	7	1·15	29	+ 20	Cambridge ..	1·7	- 1·7	15	0	31	40·8	-0·2	41·4	-1·4
a Clacton-on-Sea ..	54	48	3,7	37	6,7	46 3	39·1	42·6	+ 2·7	6	1·06	27	+ 18	Clacton	1·3	- 2·3	12	0	32	42·0	+0·2	43·2	-0·8
a Rothamsted	424	55	2nd	33	6th	47·1	36·9	41·9	+ 2·1	7	1·71	43	+ 30	Rothamsted ..	2·0	- 1·2	18	2	30	39·3	•	•	•
p Tottenham	51	56	2nd	36	6th	49·9	38·7	44·1	—	6	1·77	45	—	Tottenham ..	1·4	—	13	0	34	•	•	41·5	-2·1
4. MIDLAND COUNTIES.																						
a Harrogate	479	54	2nd	25	4th	43·3	31·6	37·3	- 1·4	6	0·62	16	+ 1	Harrogate ..	2·3	- 1·0	21	2	17	37·3	-1·8	38·7	-1·5
c North .. *p* Sheffield	429	55	2nd	32	4,5	44·4	34·7	39·4	—	b	0·78	20	—	Sheffield.. ..	2·4	- 0·9	22	2	27	37·1	-2·0	39·0	-1·8
p Buxton	987	51	2nd	29	6th	42·1	32·9	37·4	—	5	1·75	44	+ 17	Buxton	1·6	—	15	4	22	34·9	-4·0	37·7	-3·1
a Bawtry	65	55	2nd	29	4,6	45·6	34·0	39·6	- 0·6	3	0·50	13	+ 3	Worksop ..	2·1	- 1·2	19	2	19	39·1	•	39·9	•
a Nottingham	82	56	2nd	32	7th	46·0	35·1	40·4	+ 0·4	5	0·89	23	+ 12	Nottingham ..	1·7	- 1·7	15	1	27	38·3	-0·9	37·6	-2·4
b, East .. *p* Birmingham, Edgbsn.	535	55	2nd	32	6th	44·9	35·4	40·0	+ 0·2	6	0·69	18	+ 6	Birmingham ..	1·3	- 1·4	12	2	27	39·1	-1·3	41·9	-1·6
a Raunds	203	58	2nd	32	6th	46·4	35·7	40·9	+ 1·0	7	0·98	25	+ 14	Raunds	2 1	—	19	1	29	39·6	•	42·0	—
p Oxford	208	57	2nd	33	6th	47·9	38·0	42·8	+ 2·1	6	1·23	31	+ 20	Oxford	1·6	- 2·0	14	1	28	•	•	•	•
														Malvern ..	1·8	—	16	1	28	38·8	—	39·4	—
a Cheadle (N. Staffs.) ..	646	53	2nd	29	6th	43·9	32·9	38·2	- 0·6	5	0·91	23	+ 8	Cheadle	•	•	•	2	25	•	•	•	•
c, West .. *p* Tenbury	313	54	2nd	29	6th	46·0	36·0	40·9	+ 0·5	6	0·65	17	+ 7	Tenbury	•	•	•	2	24	39·0	•	•	•
p Ross-on-Wye	201	55	2nd	30	6th	47·1	37·4	42·1	+ 1·1	7	1·50	38	+ 26	Ross-on-Wye ..	1·8	—	16	1	25	—	—	•	•
a Clifton	226	56	2nd	31	6th	47·6	37·7	42·5	+ 1·2	7	2·35	60	+ 42	Clifton	2·4	—	22	1	27	•	•	•	•
5. ENGLAND, S.E.																						
a Marlborough	424	53	3rd	31	6th	48·3	38·1	43·1	+ 3·7	7	1·82	46	+ 29	Worthing ..	2·2	- 1·6	20	0	35	43·7	+1·1	43·5	-0·7
p Salisbury (Wilton) ..	180	58	3rd	32	6th	51·9	37·6	44·5	+ 4·3	7	2·44	62	+ 44	Marlborough ..	1·8	- 1·0	16	1	26	42·2	•	43·5	—
a Wisley, Surrey ..	150	56	2nd	33	6th	50·9	38 9	44·7	+ 4·2	6	1·78	45	+ 32	Salisbury	•	•	•	1	29	42·3	•	•	•
a Tunbridge Wells ..	354	52	3,5	34	6th	49·6	38·3	43·8	+ 3·6	7	2·46	62	+ 45	Wisley	2·0	- 1·1	18	3	30	41·7	+0·5	41·9	-1·0
a Margate	51	54	5th	36	2nd	49·6	40·0	44·7	+ 3·5	5	1·40	36	+ 25	Tunbridge Wells	1·4	- 2·0	13	1	27	42·2	+3·1	42·4	—
														Margate	0·8	- 2·6	7	0	33	42·7	+0·6	42·8	-0·6
a Dungeness	21	50	5th	36	6th	47·7	40·6	44·1	+ 3·6	6	1·69	43	+ 31	Folkestone ..	0·9	—	8	•	•	•	•	43·4	—
p St. Leonards	178	50	3,5	35	6th	48·4	40·9	44·5	+ 3·4	7	2·04	52	+ 37	St. Leonards ..	1·0	- 2·2	14	0	32	42·6	•	42·9	—
p Southampton	64	55	2,3	33	6th	51·6	39·0	45·1	+ 2·8	7	2·48	63	+ 47	Southampton ..	2·9	- 0·5	26	4	28	•	•	•	•
a Ventnor	59	51	3,8	34	6th	49·6	41·1	45·2	+ 2·4	7	2·17	55	+ 41	Ventnor	2·4	- 1·5	22	•	•	•	•	•	•
LONDON. *a* Richmond (Kew Obs.)	18	55	3rd	35	6th	50·7	39·0	44·7	+ 3·6	6	1·45	37	+ 25	Richmond ..	1·8	- 1·0	16	0	32	41·4	+0·1	41·7	-1·8
a Westminster	27	57	2nd	36	6th	50·9	39·8	45·2	+ 3·4	6	1·75	44	+ 33	Westminster ..	1·7	- 0·3	15	0	32	•	•	•	•
ag Greenwich	149	56	2,3	35	6th	50·9	39·0	44·8	+ 3·2	7	1·88	48	+ 38	Greenwich ..	1·7	- 1·1	15	1	28	•	•	•	•
a Hampstead	450	54	2nd	33	6th	48·1	36·7	42·2	—	6	1·51	38	—	Hampstead ..	1·8	—	16	1	30	•	•	•	•
ag Camden Square ..	110	57	2nd	34	6th	50·7	39·0	44·7	+ 3·3	6	1·76	45	+ 33	Camden Square	1·5	- 0·9	14	0	33	•	•	•	•
7. *a*, ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	47	2nd	22	4th	42·4	30·1	36·1	- 3·1	5	1·06	27	+ 6	Aspatria.. ..	2·8	- 0·3	25	4	21	37·4	-4·3	40·0	-2·2
p Newton Rigg	559	48	2nd	24	6th	43·3	29·6	36·3	- 1·9	4	0·78	20	+ 1	Newton Rigg ..	2·3	- 0·6	21	4	20	37·2	-2·3	38·8	-1·5
p Stonyhurst	375	51	2nd	26	6th	43·6	31·4	37·3	- 1·9	5	1·61	41	+ 17	Stonyhurst ..	1·7	- 1·1	15	3	19	•	•	•	•
p Blackpool	66	51	2nd	27	4th	44·3	33·7	38·8	- 1·2	7	1·51	38	+ 23	Blackpool ..	2·6	- 0·8	24	4	15	38·9	•	41·4	—
a Southport	37	54	2nd	28	4,6	45 0	33·3	39·0	- 1·3	b	1·25	32	+ 17	Southport ..	2 7	- 0·6	25	2	21	37·7	-2·4	38·9	-2·3
														Hoylake ..	2·4	- 0·7	22	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	53	2nd	32	5th	44·7	34·3	39·4	- 1·4	5	1·02	26	+ 14	Liverpool ..	2·0	—	18	3	26	•	•	•	•
a Hawarden Bridge ..	22	55	2nd	33	4th	46·7	36·3	41·4	- 0·1	6	0·89	23	+ 13	Manchester(City)	0·9	- 1·1	8	2	27	37·3	-2·3	39·9	-2·5
p Manchester (Whit. Pk.)	126	56	2nd	28	6th	46·1	34·9	40·3	- 0·7	5	1·88	48	+ 34	Whitworth Park	0·8	- 1 1	7	•	•	•	•	•	•
b NORTH WALES.																						
p Llandudno	16	53	2nd	31	4th	45·9	36·9	41·3	- 0·6	6	1·56	40	+ 26	Llandudno ..	2·0	- 1·3	18	•	•	•	•	•	•
a Holyhead ..	15	50	2nd	33	3,4	45·9	35·9	40·8	- 0·8	5	1·34	34	+ 17	Holyhead ..	2·6	—	24	2	28	•	•	•	•
a Beddgelert	309	50	2nd	28	6th	43·4	34·7	38·9	—	5	3·64	92	—	Aberdovey ..	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—									

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average	Earth 4 ft Mean	Earth 4 ft Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
8. *a*, SOUTH WALES.																						
a Aberystwyth	59	49	2nd	30	6th	44·7	36·4	40·4	—	5	1·05	27	—	Aberystwyth ..	2·3	− 0·9	21	*	*	*	*	*	*
a Rhayader	767	50	2nd	29	6th	43·7	35·1	39·3	—	6	1·18	30	—	Rhayader ..	1·6	—	14	1	21	*	*	*	*
a St. Ann's Head	149	49	2nd	36	6th	45·4	39·1	42·2	+ 0·4	5	0·87	22	+ 4	St. Ann's Head	3·7	+ 0·1	33	*	*	*	*	*	*
p Cardiff	202	48	3, 6	32	6th	45·3	37·1	41·1	+ 0·5	7	2·49	63	+ 41	Cardiff	2·2	—	20	2	23	40·6	−0·9	41·9	−1·3
b, ENGLAND, S.W.																						
a Bath	66	59	2nd	33	6th	50·9	39·0	44·8	+ 3·9	7	1·70	43	+ 28	Bath	*	*	*	*	*	41·9	+1·1	42·7	−0·7
a Shaftesbury	722	57	3rd	30	6, 7	50·0	36·3	43·0	+ 3·6	6	2·20	56	+ 40	Shaftesbury ..	*	*	*	*	*	42·2	*	41·8	*
a Arlington	613	52	2nd	30	6th	47·4	38·7	42·9	+ 2·9	7	2·26	57	+ 29										
a Newquay	190	55	2nd	38	2nd	50·6	41·4	45·9	+ 2·8	7	1·04	26	+ 9	Newquay ..	3·3	− 0·4	30	0	34	45·9	*	45·8	*
a Cullompton	202	58	2nd	33	6th	51·7	39·1	45·2	+ 4·0	7	2·45	62	+ 43	Cullompton ..	2·4	− 0·9	22	3	26	43·6	*	*	*
a Portland Bill	12	49	3rd	35	2nd	48·0	41·6	44·7	+ 2·5	7	1·98	50	+ 36	Weymouth ..	3·4	—	31	*	*	*	*	*	*
p Plymouth	116	54	2, 4	39	8th	51·6	43·3	47·3	+ 4·6	7	2·31	59	+ 39	Plymouth ..	2·5	− 1·2	23	1	30	44·8	+1·3	45·1	*
a Falmouth	167	55	2nd	37	6th	51·7	41·4	46·4	+ 3·3	7	2·34	59	+ 34	Falmouth ..	3·2	− 0·6	29	1	28	46·9	*	46·4	*
9. IRELAND, N.																						
a West .. *a* Malin Head	208	48	2nd	31	4th	45·7	34·3	39·8	− 0·9	5	0·60	15	+ 1	Malin Head ..	3·5	—	32	*	*	*	*	*	*
a Blacksod Point ..	327	48	7th	29	4, 5	44·1	34·6	39·2	− 2·9	5	1·34	34	+ 9	Markree Castle	2·5	− 0·6	23	5	15	40·0	−3·1	42·7	−1·3
p Markree Castle ..	122	51	7, 8	22	4, 5	47·0	31·0	38·8	− 1·6	5	0·51	13	− 8										
b, East .. *p* Armagh	196	50	7th	23	4th	46·3	30·9	38·4	− 2·0	5	0·49	12	− 2	Armagh	2·3	− 0·7	21	4	12	38·3	−3·1	41·5	−1·6
a Donaghadee	101	51	2nd	31	3, 4, 6	45·6	33·3	39·3	− 1·6	4	0·52	13	− 1										
10. IRELAND, S.																						
p Dublin, City	47	54	2nd	31	3rd	47·1	36·9	41·9	− 0·5	4	0·55	14	+ 2	Trinity Coll. ..	*	*	*	—	—	—	—	—	—
a Birr Castle	175	52	2nd	27	3, 4	46·3	32·1	39·0	− 1·6	4	0·43	11	− 4	Phœnix Park ..	2·9	− 0·9	26	4	21	*	*	*	*
a Kilkenny	212	54	2nd	29	4, 6	46·4	32·6	39·3	− 1·8	5	0·59	15	0	Dublin City ..	*	*	*	3	24	*	*	*	*
a Waterford	120	54	2nd	32	4th	47·3	36·3	41·6	− 0·7	4	0·79	20	+ 3	Birr Castle ..	2·5	− 0·9	23	6	19	*	*	*	*
p Seskin, Carrick-on-Suir	541	52	2nd	28	4th	45·9	33·9	39·7	—	7	0·85	22	—	Seskin	3·7	—	33	3	24	*	*	*	*
a Cahir	199	53	2nd	30	4, 6	46·6	34·4	40·3	− 1·1	6	1·12	28											
a Foynes	50	51	2nd	29	4th	46·4	36·6	41·4	− 1·0	5	0·69	18	− 1										
a Cahirciveen (Val. Obs.)	30	50	2nd	33	4th	46·6	38·7	42·5	− 1·3	6	1·34	34	+ 5	Cahirciveen ..	2·6	− 1·2	23	0	32	*	*	*	*
a Killarney	174	53	2nd	32	3, 4	47·1	37·4	42·1	− 0·7	7	1·15	29	− 1	Ballinacurra ..	3·5	− 0·8	32	*	*	*	*	*	*
a Roche's Point	32	52	2nd	34	4th	46·9	37·1	41·9	− 1·2	6	0·72	18	− 1										
11. ENGLISH CHANNEL.																						
a Scilly, St. Mary's ..	131	53	2, 4	41	6th	51·1	43·7	47·3	+ 2·3	7	1·26	32	+ 14	Scilly	3·9	+ 0·2	35	*	*	*	*	*	*
a Jersey, St. Aubins ..	25	55	4th	39	6, 7	52·6	43·0	47·7	+ 4·0	5	1·77	45	+ 27	St. Heliers ..	3·5	− 0·4	33	*	*	*	*	*	*
a Guernsey (Villa Carey)	180	54	2nd	38	6th	51·1	43·4	47·1	+ 2·9	7	2·53	64	+ 45	Guernsey† ..	3·5	− 0·4	32	0	37	45·6	+1·0	45·5	−0·2

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, March 8th, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time. day.	hr.	Highest Gust. Speed.	Date d.	h.	m.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N. Deerness (Cup Anr.)** ..	188	16	5	2	1	1 to 4, 6	55	71	32	9	0	247	18	2	21	—	—	—	—
1. SCOTLAND, E. Dyce	305	75	15*	—	—	—	—	16	94	29	29	—	7	3	13	17	3	10	40
Aberdeen	153	105	52	—	—	3	1	39	79	49	0	293	11	3	15	19	3	14	50
Edinburgh	485	39	31	—	—	2, 3, 6	19	56	63	28	0	225	15	2	16	25	2	15	35
6. SCOTLAND, W. Eskdalemuir	825	50	22	2	1	2, 3, 7	16	43	31	77	0	190	18	2	15	27	2	15	5
Paisley	188	81	15	—	—	2	2	57	55	54	0	191	12	2	13	23	2	12	35
2. ENGLAND, N.E. Alnwick Castle	340	70	17	—	—	2	1	19	53	95	0	225	11	2	18	20	2	18	50
South Shields	72	61	12	—	—	2	3	57	85	23	0	270	13	2	19	23	2	19	10
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E. Yarmouth (Cup Anr.) ..	73	60	10	—	—	4	3	44	115	6	0	45	12	4	9	—	—	—	—
Gorleston	52	42	‡	—	—	6	3	91	74	0	0	—	12	6	5	15	6	4	35
Shoeburyness	103	90	‡	—	—	2, 7	15	101	48	4	0	214	14	7	18	18	7	14	56
4. MIDLAND COUNTIES Benson	270	84	‡	—	—	7	1	64	64	39	0	225	12	7	11	18	7	10	35
5. ENGLAND, S.E. Warlingham	642	33	‡	—	Instrument under repair.			—	—	—	—	—	—	—	—	—	—	—	—
Brighton	261	53	6	—	—	7	1	52	70	14	31	—	11	7	19	18	7	18	55
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	2, 5 to 7	17	87	61	3	0	190	16	7	12	19	7	11	10
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	10	99	59	0	214	8	7	13	14	7	13	25
7. ENGLAND, N.W. Carnforth	246	56	23	—	—	—	—	16	70	82	0	203	9	2	17	14	2	13	50
Fleetwood (Cup Anr.) ..	109	44	—	—	—	2	4	50	83	7	21	214	14	2	16	—	—	—	—
Southport	80	62	48	2	1	2, 6, 7	19	82	64	2	0	214	18	2	15	26	2	15	5
Holyhead	60	40	‡	—	—	2, 4, 6	7	102	53	6	0	211	14	2	14	21	2	14	30
8. ENGLAND, S.W. Pendennis Castle§ ..	256	65	24	7	5	2, 3, 5 to 7	13	79	59	12	0	225	21	7	11	27	7	11	25
Plymouth	185	88	2	—	—	7	5	44	87	15	17	—	14	7	13	19	7	13	15
Lyme Regis	556	61	‡	—	—	5, 7	9	58	56	45	0	—	13	5	19	18	5	19	10
10. IRELAND, S. Kingstown (Cup Anr.) ..	49	27	—	2	4	2, 6	15	90	56	3	0	236	22	2	14	—	—	—	—
Quilty	100	40	‡	2	2	2, 7	6	80	80	0	0	—	18	2	10	27	2	10	30
Cahirciveen (Val. Obs.)	98	41	‡	—	—	2, 6, 7	11	72	56	29	0	225	16	2	9	24	2	9	15
Weaver Pt.	160	30	‡	—	—	2, 7	12	89	67	9	0	—	15	2	10	22	2	9	20
11. ENGLISH CHANNEL Scilly	150	32	‡	—	—	5, 7	18	81	65	4	0	360	12	5	19	19	5	18	55

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.

* Above tops of trees. ** For Deerness the week ends at midnight on Friday

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

TENTH WEEK of 1919—March 2nd to March 8th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	48	20	78·1	71·6	74·7	− 1·8	0	− 8	48	+ 14	5	0	0·76	19	− 10	3·5	+0·5	33	1002
Eastern.																			
1. SCOTLAND, EAST ...	54	14	78·4	70·8	74·5	− 2·1	0	− 10	51	+ 13	2	− 3	0·17	4	− 12	4·4	+1·3	41	1005
2. ENGLAND, N.E.	56	19	80·3	73·4	76·7	− 0·6	9	− 5	33	+ 4	4	0	0·62	16	+ 4	2·5	−0·8	23	1006
3. ENGLAND, EAST ...	58	31	81·3	76·1	78·6	+ 1·1	20	+ 3	13	− 17	6	+ 2	1·06	27	+ 16	1·5	−1·8	14	1009
4. MIDLAND COUNTIES ...	58	25	80·7	74·9	77·7	+ 0·3	11	− 6	25	− 7	6	+ 2	1·03	26	+ 14	2·0	−1·0	18	1008
5. ENGLAND, S.E.	58	31	82·9	77·1	79·9	+ 1·8	28	+ 9	7	− 17	7	+ 3	1·97	50	+ 36	1·8	−1·6	16	1009
Western.																			
6. SCOTLAND, WEST ...	51	20	79·3	72·5	75·8	− 1·6	4	− 7	38	+ 11	5	0	0·67	17	− 7	2·4	−0·7	21	1007
7. ENGLAND, N.W.	56	22	80·1	73·9	76·9	− 0·7	8	− 5	30	+ 5	5	+ 1	1·28	33	+ 16	2·3	−0·6	21	1007
8. ENGLAND, S.W.	59	29	82·2	76·9	79·5	+ 1·2	24	+ 6	8	− 13	7	+ 3	1·98	50	+ 29	2·7	−0·7	24	1009
9. IRELAND, NORTH ...	52	22	80·7	73·4	76·9	− 1·1	11	− 5	34	+ 10	5	0	0·65	16	− 2	2·4	−0·6	22	1006
10. IRELAND, SOUTH ...	54	27	81·2	75·1	78·1	− 0·6	13	− 9	25	+ 5	5	+ 1	0·83	21	+ 1	2·9	−0·8	26	1008
11. ENGLISH CHANNEL ...	55	38	83·9	79·3	81·6	+ 1·8	38	+ 13	0	− 9	6	+ 1	1·86	47	+ 28	3·6	−0·2	33	1010

THE SEASON (Spring).—Aggregates, &c., for the Period of 1 Week, March 2nd to March 8th, 1919.

0. SCOTLAND, NORTH ..	48	20	78·1	71·6	74·7	− 1·8	0	− 8	48	+ 14	5	0	0·76	19	− 10	3·5	+0·5	33	1002
Eastern.																			
1. SCOTLAND, EAST ...	54	14	78·4	70·8	74·5	− 2·1	0	− 10	51	+ 13	2	− 3	0·17	4	− 12	4·4	+1·3	41	1005
2. ENGLAND, N.E.	56	19	80·3	73·4	76·7	− 0·6	9	− 5	33	+ 4	4	0	0·62	16	+ 4	2·5	−0·8	23	1006
3. ENGLAND, EAST ...	58	31	81·3	76·1	78·6	+ 1·1	20	+ 3	13	− 17	6	+ 2	1·06	27	+ 16	1·5	−1·8	14	1009
4. MIDLAND COUNTIES ...	58	25	80·7	74·9	77·7	+ 0·3	11	− 6	25	− 7	6	+ 2	1·03	26	+ 14	2·0	−1·0	18	1008
5. ENGLAND, S.E.	58	31	82·9	77·1	79·9	+ 1·8	28	+ 9	7	− 17	7	+ 3	1·97	50	+ 36	1·8	−1·6	16	1009
Western.																			
6. SCOTLAND, WEST ...	51	20	79·3	72·5	75·8	− 1·6	4	− 7	38	+ 11	5	0	0·67	17	− 7	2·4	−0·7	21	1007
7. ENGLAND, N.W.	56	22	80·1	73·9	76·9	− 0·7	8	− 5	30	+ 5	5	+ 1	1·28	33	+ 16	2·3	−0·6	21	1007
8. ENGLAND, S.W.	59	29	82·2	76·9	79·5	+ 1·2	24	+ 6	8	− 13	7	+ 3	1·98	50	+ 29	2·7	−0·7	24	1009
9. IRELAND, NORTH ...	52	22	80·7	73·4	76·9	− 1·1	11	− 5	34	+ 10	5	0	0·65	16	− 2	2·4	−0·6	22	1006
10. IRELAND, SOUTH ...	54	27	81·2	75·1	78·1	− 0·6	13	− 9	25	+ 5	5	+ 1	0·83	21	+ 1	2·9	−0·8	26	1008
1. ENGLISH CHANNEL ...	55	38	83·9	79·3	81·6	+ 1·8	38	+ 13	0	− 9	6	+ 1	1·86	47	+ 28	3·6	−0·2	33	1010

THE YEAR 1919.—Aggregates, &c., for the Period of 10 Weeks, December 29th, 1918, to March 8th, 1919.

0. SCOTLAND, NORTH ...	50	11	77·6	72·4	75·0	− 1·4	4	− 63	456	+ 102	41	−10	6·75	172	−132	1·8	+0·3	21	1006
Eastern.																			
1. SCOTLAND, EAST ...	54	5	77·2	71·7	74·5	− 1·5	0	− 73	519	+ 107	39	− 2	5·84	149	+ 6	1·9	−0·2	22	1006
2. ENGLAND, N.E.	56	11	78·1	73·2	75·7	− 1·0	19	− 77	398	+ 64	46	+ 8	6·48	166	+ 65	1·6	−0·5	18	1007
3. ENGLAND, EAST ...	58	10	78·5	73·4	76·0	− 0·7	55	− 53	402	+ 45	46	+ 7	6·74	172	+ 72	1·5	−0·8	16	1009
4. MIDLAND COUNTIES ...	58	9	78·1	72·9	75·5	− 1·2	34	− 84	436	+ 68	43	+ 4	7·26	184	+ 66	1·6	−0·4	17	1008
5. ENGLAND, S.E.	58	16	79·3	74·4	76·9	− 0·5	111	− 25	309	+ 25	49	+11	9·07	230	+102	1·6	−0·7	17	1008
Western.																			
6. SCOTLAND, WEST ...	54	14	78·5	73·5	76·0	− 1·1	21	− 76	353	+ 67	41	− 6	7·56	192	− 57	1·7	−0·1	19	1007
7. ENGLAND, N.W.	56	16	78·6	73·9	76·3	− 1·0	29	− 76	337	+ 62	44	+ 3	6·34	160	− 5	1·8	−0·2	20	1006
8. ENGLAND, S.W.	59	15	79·6	74·9	77·3	− 0·7	106	− 56	262	+ 40	50	+ 8	11·83	301	+103	2·2	−0·1	24	1007
9. IRELAND, NORTH ...	53	22	79·7	74·5	77·1	− 0·8	68	− 72	278	+ 39	46	− 3	6·32	159	− 31	2·3	+0·3	26	1005
10. IRELAND, SOUTH ...	56	22	80·5	75·1	77·9	− 0·8	123	− 81	232	+ 44	46	+ 1	8·28	211	− 1	2·4	+0·1	27	1005
11. ENGLISH CHANNEL ...	56	26	81·5	77·5	79·5	− 0·3	206	− 36	84	− 3	54	+ 7	13·54	343	+174	2·2	−0·6	24	1008
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F			inches	mm	mm	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: COL. H. G. LYONS, R.E., F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: March 15th, 1919.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 41

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 11.

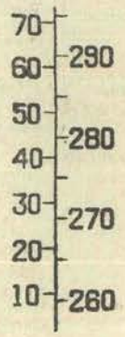
THE ELEVENTH WEEK OF 1919.

SUNDAY, MARCH 9TH, TO SATURDAY, MARCH 15TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

Several low-pressure systems travelled across the British Isles during the week and changeable, unsettled weather prevailed generally. The first three days were mostly very dull and rainy, with moderate temperature; subsequently the weather became cooler and much finer. Taking the week as a whole the temperature did not differ materially from the normal: there was a slight excess in England E., England S.E., and the English Channel, elsewhere there was a deficit, the greatest being 1 a. in Ireland. The warmest day of the week was as a rule the 10th, when the thermometer rose to 286 a. over England generally, and to 287 a. and 288 a. in England S.W. Over the greater part of Scotland, however, the thermometer did not exceed 283 a. all the week. No very low minima were recorded, the lowest readings in the screen being 267 a. at Rhayader and 268 a. at Markree Castle, while grass minima of 264 a. were registered at Armagh on the 13th, and at Rhayader on the 15th. Between the earlier days and the middle of the week there was a fall of temperature in many parts of England of from 7 a. to 9 a. Precipitation was mostly snow or sleet in the North but rain in the South; the total fall was less than the normal in Scotland and slightly so in England S.E. and Ireland N., but largely in excess in England N.W. and the Midland Counties; in the latter districts on the 10th and 11th the fall was heavy and continuous: 33mm. fell at Harrogate and Southport on the 11th, 35mm. at Stonyhurst on the 10th, and 35mm. at Hawarden (Chester) on the 11th, while the totals of the two days, 10th and 11th, at Beddgelert was 115mm.; at Rhayader (Central Wales) the total for the three days, 10th–12th, was 83mm. Solar halos were seen at Aberdeen on the 9th and at Oxford on the 9th, 10th and 15th, while there were lunar halos in Scotland on various dates, at Greenwich on the 12th and at Falmouth on the 14th. The Observer at Seskin (Carrick-on-Suir) in describing the snow-clad mountains visible from that station says "they were a truly magnificent sight, the changing colours from dawn to after sunset were wonderful. The colorations of sky and mountains are indescribable."



Temperatu re Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.*		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	13	6·5	9	6·3	20	3·2	12	5·6	8	4·7	10	6·5	9	3·3	8	4·8
North	13	7·2	17	4·1	5	1·9	8	2·7	16	6·2	16	6·8	10	3·6	12	3·1
West	10	4·6	19	4·6	19	2·4	19	3·0	15	3·3	21	5·0	20	4·4	13	3·3
East	16	4·7	7	3·1	5	1·5	0	—	8	3·8	3	4·1	3	4·8	9	1·5
Calm	0	—	0	—	1	—	8	—	4	—	0	—	4	—	6	—

* For Scotland N. (Deerness) the week ends at midnight on Friday.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Deficient	Moderate
	Rainfall ...	Light	Heavy	Heavy	Moderate	Very heavy	Moderate	Moderate	Very heavy	Heavy	Moderate	Moderate	Heavy
	Sunshine ...	Very Abundant	Scanty	Very scanty	Scanty	Scanty	Scanty	Moderate	Scanty	Moderate	Moderate	Moderate	Moderate

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SPRING. 2 weeks from March 2nd, 1919.	Warmth ...	0, 1, 1	0, 1, 1	0, 0, 2	0, 2, 0	0, 2, 0	1, 1, 0	0, 1, 1	0, 2, 0	0, 2, 0	0, 0, 2	0, 0, 2	0, 2, 0
	Rainfall ...	0, 1, 1	1, 0, 1	2, 0, 0	1, 1, 0	2, 0, 0	1, 1, 0	0, 2, 0	2, 0, 0	2, 0, 0	0, 2, 0	0, 2, 0	2, 0, 0
	Sunshine ...	2, 0, 0	1, 0, 1	0, 0, 2	0, 0, 2	0, 0, 2	0, 0, 2	0, 2, 0	0, 1, 1	0, 2, 0	0, 1, 1	0, 2, 0	0, 2, 0

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of 5/9° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour

(22305—19.) Wt. 199—789. 625 3/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880. GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.			Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average	Earth 4 ft Mean	Earth 4 ft Deviation from Average
	F.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																							
a. Islands .. a Lerwick ..	54	45	12th	30	9th	42·3	33·6	37·8	- 0·6	5	0·47	12	- 7					•	•	•	•	•	•
a Houton Bay	520	44	11th	25	9th	40·7	31·4	35·9	—	—	—	—	—	Deerness	—	—	—	•	•	•	•	•	•
a Stornoway	51	48	10th	30	15th	44·7	34·0	39·2	- 0·4	5	0·63	16	- 8	Stornoway	5·1	+ 1·9	45	•	•	•	•	•	•
a Castlebay, Barra Isd.	37	48	10th	36	13–15	44·4	37·3	40·8	—	2	0·24	6	—	Castlebay	6·5	—	57	•	•	•	•	•	•
b. Mainland. a Wick	81	47	11th	32	10th	43·1	34·7	38·8	- 0·3	5	0·31	8	- 6	Fort Augustus	—	—	—	•	•	•	•	•	•
a Strathpeffer	125	45	9, 11	30	12th	43·0	33·1	37·9	- 1·2	4	0·75	19	+ 3										
a Glencarron	900	—	—	—	—	—	—	—	—	—	—	—	—										
a Fort Augustus	85	49	10th	29	10th	42·9	33·7	38·2	- 1·2	4	0·70	18	- 4										
p Fort William	171	47	9, 11	29	13th	44·6	32·9	38·6	- 1·7	4	0·71	18	- 21										
1. SCOTLAND, E.																							
a Nairn	82	48	10th	29	9th	43·6	33·0	38·1	- 1·2	6	0·46	12	+ 1	Nairn	3·2	—	28	•	•	•	•	•	•
p Gordon Castle	101	48	11th	31	15th	44·7	33·6	39·0	- 0·9	5	0·65	17	+ 4	Gordon Castle	3·5	—	31	•	•	•	•	•	•
a Aberdeen	46	50	11th	27	9th	44·4	33·7	38·9	- 1·0	5	0·75	19	+ 5	Aberdeen	2·7	- 1·1	24	2	23	•	•	38·3	-1·7
a Balmoral	930	43	9–11	28	12, 13	39·9	30·1	34·9	- 0·9	7	0·91	23	+ 6	Balmoral	•	•	•	5	21	•	•	•	•
p Crieff	432	46	9, 11, 14	31	14th	43·9	33·0	38·3	- 1·6	4	0·86	22	+ 4	Crathes	2·5	- 1·1	22	6	21	33·5	-4·6	35·8	-3·0
a Dundee	244	48	9th	32	9, 10, 14	44·0	33·0	38·3	- 1·3	7	0·51	13	+ 1	Dundee	3·4	—	30	4	25	35·1	•	•	•
a Leith	30	50	9th	35	9th	44·7	36·3	40·4	- 0·7	5	0·51	13	+ 3	Leith	—	—	—	0	31	•	•	•	•
p Edinburgh	441	49	10th	32	13th	42·7	35·1	38·8	- 0·9	6	0·45	11	+ 1	Edinburgh	1·0	- 2·7	9	2	29	•	•	•	•
a West Linton	769	48	10th	30	13th	41·6	32·0	36·7	0·0	5	0·74	19	—	West Linton	1·3	—	11	5	27	•	•	•	•
p Marchmont	498	47	9, 11	31	12, 15	42·9	32·0	37·3	- 1·5	6	1·24	31	+ 16	Marchmont	1·2	- 2·3	11	•	•	•	•	•	•
6. a. SCOTLAND, W.																							
a Ford (Argyll)	149	50	15th	25	13th	46·6	31·8	39·0	—	3	1·19	30	—	Ford (Argyll)	•	•	•	4	16	37·6	•	38·8	—
p Glasgow Observatory	180	47	9, 10	32	13th	44·7	35·4	39·9	- 0·7	3	0·62	16	+ 2	Glasgow	3·0	+ 0·3	26	3	22	•	•	•	•
p Rothesay	200	50	10th	31	13th	46·3	34·6	40·3	- 0·9	3	1·17	30	+ 11	Rothesay	4·7	—	41	6	23	38·1	•	40·0	-2·3
a Kilmarnock	90	50	10th	25	13th	46·9	33·9	40·2	+ 0·1	2	0·76	19	+ 5	Kilmarnock	3·4	—	30	•	•	37·8	•	40·0	—
a Colmonell	170	52	10th	25	13th	47·7	34·7	41·0	+ 0·2	2	0·68	17	- 1	Colmonell	•	•	•	2	21	•	•	•	•
p Cally, Gatehouse	120	51	15th	27	13th	47·1	34·6	40·7	+ 0·2	2	0·89	23	+ 3	Dumfries	2·6	—	23	4	22	38·7	-1·7	39·5	-2·1
p Dumfries	160	51	10th	31	13th	46·7	35·4	40·9	+ 0·2	2	0·49	12	- 3	Eskdalemuir	3·1	—	27	4	23	•	•	•	•
a Eskdalemuir	794	46	10th	28	13th	42·1	31·0	36·4	—	3	0·98	26	—										
b. I.OF MAN p Douglas	277	49	9th	31	13th	46·1	36·0	40·9	- 0·7	3	0·56	14	- 1	Douglas	5·1	+ 0·9	44	3	26	•	•	•	•
2. ENGLAND, N.E.																							
a North .. a Alnwick Castle	210	52	10th	33	13th	44·0	35·0	39·4	- 0·9	7	0·92	23	+ 11										
a Tynemouth	71	51	10th	33	14th	44·1	36·0	39·9	- 0·8	7	0·91	23	+ 14	Cockle Park	0·6	- 3·6	5	0	31	36·5	-1·6	38·3	-1·7
p Durham	336	51	10th	32	13th	43·7	34·3	38·9	- 1·2	7	1·10	28	+ 19	Durham	0·6	- 3·1	5	5	26	•	•	•	•
p Rounton	249	52	10th	32	13, 15	44·4	33·9	39·0	- 0·9	6	1·17	30	+ 22	Rounton	•	•	•	5	22	38·3	•	•	•
a West Witton	605	50	10th	32	13th	42·7	34·1	38·3	—	6	1·92	49	—	West Witton	•	•	•	3	28	36·8	•	•	•
p Scarborough	100	52	11th	35	14th	47·6	36·7	42·0	+ 0·4	6	1·60	41	+ 32	Scarborough	1·0	- 3·0	9	•	•	•	•	39·5	•
p York	56	55	10th	33	12th	45·7	36·0	40·7	- 0·8	6	1·37	35	+ 27	York	0·9	- 2·4	8	—	—	39·5	-0·8	40·5	-1·0
b. South .. a Spurn Head	26	52	10th	35	13–15	45·0	36·4	40·6	- 0·5	4	0·76	19	+ 12	Spurn Head	0·3	—	3	•	•	•	•	•	•
a Lincoln	58	50	10th	31	14th	45·0	35·7	40·2	- 1·3	5	1·09	28	+ 20	Lincoln	•	•	•	3	25	39·7	+0·4	40·6	-0·5
a Fulbeck	180	54	10th	29	14th	45·4	35·3	40·2	- 1·2	5	1·10	28	+ 19	Fulbeck*	0·4	- 3·7	3	•	•	40·7	-0·9	42·3	-0·6
														Skegness	1·2	- 3·2	10	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	55	12th	31	14th	47·9	35·1	41·3	+ 0·3	5	0·43	11	+ 4	Cromer	1·4	- 2·7	12	•	•	•	•	•	•
a Little Massingham	280	52	10, 12	27	14th	46·7	33·7	40·0	- 1·0	6	0·61	16	+ 6	Lit. Massingham	0·6	- 3·1	5	•	•	•	•	•	•
a Yarmouth	13	53	10, 11	31	14, 15	48·1	35·7	41·7	+ 1·2	5	0·41	11	+ 3	Yarmouth	1·6	—	14	2	29	43·4	+1·8	44·0	+0·4
a Norwich	93	56	12th	30	14th	49·1	36·7	42·7	+ 1·2	5	0·46	12	+ 3	Norwich	1·3	—	11	3	26	41·6	•	•	•
a Geldeston	37	55	12th	27	14th	50·3	35·1	42·5	+ 1·2	4	0·31	8	0	Geldeston	1·8	- 2·2	16	•	•	•	•	•	•
p Cambridge	41	54	10–12	23	14th	50·1	33·3	41·5	- 0·1	5	0·55	14	+ 7	Cambridge	2·1	- 1·8	18	3	21	42·0	+0·4	42·5	-0·7
a Clacton-on-Sea	54	50	11th	32	14, 15	47·1	37·3	42·1	+ 1·2	4	0·24	6	- 1	Clacton	2·8	- 1·4	24	5	26	43·4	+1·1	44·1	-0·2
a Rothamsted	424	51	10, 11	29	14th	47·1	36·3	41·5	+ 0·7	4	0·46	12	+ 3	Rothamsted	2·5	- 1·2	22	5	21	40·8	•	•	•
p Tottenham	51	54	11th	35	12th	49·6	39·9	44·6	—	5	0·27	7	—	Tottenham	2·1	—	18	1	28	•	•	42·8	-1·0
4. MIDLAND COUNTIES.																							
c North .. a Harrogate	479	48	10th	30	14th	43·0	33·6	38·2	- 1·8	5	1·40	36	+ 25	Harrogate	1·7	- 2·1	15	3	26	38·2	-1·2	39·4	-1·1
p Sheffield	429	55	10th	32	12–14	45·7	34·6	40·0	—	5	1·81	46	—	Sheffield	2·2	- 1·1	19	2	27	37·8	-1·7	39·4	-1·6
p Buxton	987	—	—	—	—	—	—	—	—	—	—	—	—	Buxton	—	—	—	—	—	—	—	—	—
b. East .. a Bawtry	65	55	10th	30	10th	45·7	34·7	40·0	- 1·6	5	1·77	45	+ 37	Worksop	1·1	- 2·2	10	4	22	40·0	•	40·8	•
a Nottingham	82	55	10th	32	14, 15	45·4	34·4	39·7	- 1·7	5	1·51	38	+ 30	Nottingham	1·0	- 2·4	9	4	22	38·4	-0·9	38·8	-1·5
p Birmingham, Edgbn.	535	53	10th	31	14, 15	47·4	34·3	40·7	- 0·5	4	1·24	32	+ 23	Birmingham	2·2	- 0·5	19	3	20	39·8	-0·7	42·1	-1·3
a Raunds	203	56	10th	27	14th	48·9	34·3	41·4	+ 0·1	5	1·15	29	+ 21	Raunds	1·8	—	16	4	20	41·9	•	42·3	•
p Oxford	208	55	10th	30	14, 15	49·7	35·4	42·3	+ 0·2	4	0·72	18	+ 10	Oxford	2·5	- 1·1	22	4	22	•	•	•	—
														Malvern	3·0	—	26	3	23	40·2	—	40·6	•
c. West .. a Cheadle (N. Staffs.)	646	53	10, 11	29	13th	45·6	32·9	39·1	- 4·1	4	1·62	41	+ 30	Cheadle	•	•	•	4	23	•	•	•	—
p Tenbury	313	54	9, 10	25	15th	48·4	31·9	39·9	- 1·9	4	2·06	52	+ 44	Tenbury	•	•	•	5	21	40·1	•	•	•
p Ross-on-Wye	201	53	10th	27	15th	50·3	34·1	42·0	- 0·4	3	1·35	34	+ 25	Ross-on-Wye	2·9	—	25	4	21	—	—	•	•
a Clifton	228	56	10th	30	14th	49·4	36·1	42·6	0·0	5	1·07	27	+ 14	Clifton	3·1	—	27	3	25	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	54	10th	28	15th	48·7	35·4	41·9	+ 1·4	6	0·69	18	+ 6	Worthing	2·9	- 1·5	25	1	30	44·3	+1·3	44·5	0·0
p Salisbury (Wilton)	180	53	10th	29	13, 15	49·5	35·1	42·1	+ 0·8	5	0·65	17	+ 5	Marlborough	2·3	- 0·9	20	5	18	43·4	•	44·3	—
a Wisley, Surrey	150	53	11th	30	14th	48·9	38·3	43·4	+ 1·7	5	0·27	7	- 2	Salisbury	•	•	•	4	23	43·3	•	•	•
a Tunbridge Wells	354	52	11th	31	13th	48·3	38·4	43·2	+ 1·8	4	0·35	9	- 3	Wisley	2·6	- 1·0	22	5	17	43·3	+1·7	42·8	-0·4
a Margate	51	54	11th	31	15th	49·1	39·6	44·2	+ 1·9	2	0·08	2	- 5	Tunbridge Wells	1·9	- 2·0	16	2	23	43·7	+4·1	43·3	—
														Margate	2·3	- 1·6	20	1	28	44·5	+2·0	43·9	+0·3
a Dungeness	21	50	11th	34	13–15	47·9	39·1	43·4	+ 1·9	5	0·25	6	- 2	Folkestone	1·7	—	15	•	•	•	•	44·4	—
p St. Leonards	178	50	11, 12	33	13th	48·0	38·4	43·1	+ 0·9	5	0·20	5	- 5	St. Leonards	3·0	- 1·2	26	1	29	44·3	•	43·7	—
p Southampton	64	53	11, 12	31	13th	49·9	36·7	43·1	- 0·3	6	0·59	15	+ 4	Southampton	2·8	- 1·1	24	4	22	•	•	•	•
a Ventnor	59	51	9, 11	33	14th	48·3	38·9	43·5	- 0·3	5	0·33	8	- 2	Ventnor	3·0	- 1·5	26	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	54	11th	32	14th	49·6	38·1	43·7	+ 1·5	4	0·27	7	- 1	Richmond	2·6	- 0·7	22	4	21	43·5	+1·7	42·8	-1·0
a Westminster	27	55	11th	33	14th	50·7	39·8	45·1	+ 2·2	4	0·32	8	0	Westminster	1·9	- 0·4	16	1	29	•	•	•	•
og Greenwich	149	55	11th	31	14th	50·4	38·3	44·2	+ 1·4	5	0·14	4	- 5	Greenwich	2·5	- 0·6	22	4	28	•	•	•	•
a Hampstead	450	51	10–12	30	14th	48·0	38·1	41·9	—	5	0·39	10	—	Hampstead	2·4	—	21	4	24	•	•	•	•
og Camden Square	110	55	11th	28	14th	50·4	38·0	44·0	+ 1·4	5	0·35	9	0	Camden Square	1·9	- 0·9	16	3	28	•	•	•	•
7. a. ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	47	10th	29	13th	43·0	34·3	38·5	- 1·9	5	0·79	20	+ 4	Aspatria	1·4	- 2·2	12	3	22	39·1	-2·7	40·4	-3·0
p Newton Rigg	559	49	10th	30	13th	43·9	33·3	38·4	- 1·1	5	0·83	21	+ 6	Newton Rigg	1·0	- 2·4	9	6	23	38·7	-1·1	39·0	-1·5
p Stonyhurst	375	50	10th	32	13th	44·1	34·9	39·4	- 1·0	4	2·27	58	+ 39	Stonyhurst	1·5	- 1·7	13	3	25	•	•	•	•
p Blackpool	66	49	10th	34	14th	45·3	37·0	41·0	- 0·2	5	1·17	30	+ 18	Blackpool	3·7	- 0·3	32	3	20	40·4	•	41·7	—
a Southport	37	51	10th	34	12, 14	44·9	37·0	40·8	- 0·7	4	1·82	46	+ 34	Southport	3·4	- 0·4	29	3	23	39·3	-1·5	40·1	-1·7
														Hoylake	—	—	—	3	28	•	•	•	•
a Liverpool (Bidston)	188	55	10th	32	12th	44·6	35·4	39·9	- 2·1	4	1·65	42	+ 32	Liverpool	3·0	—	26	4	26	•	•	•	•
a Hawarden Bridge	22	56	10th	33	12th	45·6	36·7	41·0	- 1·7	4	1·96	50	+ 42	Manchester (City)	1·7	- 0·8	15	2	30	38·6	-1·3	40·1	-2·6
p Manchester (Whit. Pk.)	125	53	10th	32	13, 14	45·9	34·9	40·2	- 2·1	4	1·92	49	+ 37	Whitworth Park	1·3	- 0·9	11	•	•	•	•	•	•
b NORTH WALES.																							
p Llandudno	16	55	10th	31	15th	47·3	35·9	41·4	- 1·6	4	2·01	51	+ 40	Llandudno	3·3	- 0·5	28	•	•	•	•	•	•
a Holyhead	15	49	9th	32	15th	47·0	38·0	42·4	- 0·3	4	0·95	24	+ 10	Holyhead	4·0	—	34	3	20	•	•	•	•
a Beddgelert	309	50	10th	25	15th	44·0	34·6	39·2	—	4	5·08	129	—	Aberdovey	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average.
8. *a.* SOUTH WALES.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		mm.	mm.		hr.	hr.	%		F.°	°F.	°F.	°F.	°F.
a Aberystwyth	59	50	10th	29	14th	45·0	35·1	39·9	—	3	2·66	68	—	Aberystwyth ..	3·7	+ 0·1	32	•	•	•	•	•	•
a Rhayader	757	52	10th	21	15th	43·3	30·4	36·7	—	4	3·31	84	—	Rhayader ..	2·7	—	23	4	16	•	•	•	•
a St. Ann's Head	149	48	9, 10	35	14th	45·1	39·1	42·0	- 0·8	5	1·69	43	+ 30	St. Ann's Head	4·1	+ 0·1	35	•	•	•	•	•	•
p Cardiff	202	53	10th	31	13, 15	48·6	34·1	41·1	- 0·8	4	1·19	30	+ 15	Cardiff	2·8	—	24	6	17	41·6	-0·2	42·5	-0·9
b, ENGLAND, S.W.																							
a Bath	66	58	10th	26	15th	50·4	35·7	42·8	+ 0·6	4	0·57	14	+ 3	Bath	•	•	•	•	•	43·1	+1·4	43·6	+0·1
a Shaftesbury	722	57	10th	30	13, 14	47·4	35·1	41·1	+ 0·4	4	0·32	8	- 3	Shaftesbury ..	•	•	•	•	•	42·4	•	42·8	•
a Arlington	613	52	10th	30	14th	45·9	35·0	40·3	- 0·9	5	1·90	48	+ 29										
a Newquay	190	55	10th	35	14th	48·4	40·0	44·1	0·0	5	1·19	30	+ 18	Newquay ..	3·7	- 0·4	32	2	29	46·7	•	46·4	•
a Cullompton	202	57	10th	31	13-15	49·0	36·3	42·5	0·0	5	0·60	15	+ 2	Cullompton ..	2·6	- 1·1	22	5	20	44·4	•	•	•
a Portland Bill	19	52	9th	36	14, 15	47·4	40·9	44·1	+ 0·8	5	0·32	8	- 2	Weymouth ..	3·5	—	30	•	•	•	•	•	•
p Plymouth	116	54	10th	33	13th	49·6	39·0	44·1	+ 0·2	4	0·95	24	+ 10	Plymouth ..	3·9	- 0·9	34	1	29	45·0	+1·0	46·0	•
a Falmouth	167	53	9th	35	14, 15	49·3	38·9	44·0	- 0·2	6	1·48	38	+ 21	Falmouth ..	3·9	- 0·3	34	2	28	47·3	•	47·1	•
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	47	10th	31	13th	44·3	35·4	39·7	- 2·4	3	0·35	9	- 3	Malin Head ..	4·6	—	40	•	•	•	•	•	•
{ *a* Blacksod Point ..	327	50	9th	30	14th	46·3	35·9	41·0	- 2·5	7	0·98	25	+ 5	Markree Castle	2·5	- 0·6	22	6	17	41·7	-1·5	42·4	-1·9
{ *p* Markree Castle ..	122	51	10, 15	23	14th	48·9	32·3	40·4	- 1·4	3	0·58	15	- 2										
b, East .. { *p* Armagh	196	53	10th	25	13th	48·4	32·7	40·3	- 1·6	2	0·21	5	- 7	Armagh	5·0	+ 1·9	43	3	15	40·5	-1·2	41·9	-1·4
{ *a* Donaghadee	101	53	10th	33	15th	46·4	36·6	41·4	- 0·9	2	0·35	9	- 2										
10. IRELAND, S.																							
p Dublin, City	47	56	10th	30	13th	47·7	37·4	42·4	- 1·3	3	0·12	3	- 6	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
a Birr Castle	175	53	10th	25	14, 15	47·4	32·4	39·7	- 2·2	5	0·44	11	- 1	Phœnix Park ..	2·8	- 0·7	24	3	17	•	•	•	•
a Kilkenny	212	53	10th	27	14th	47·3	33·7	40·3	- 2·2	7	0·88	22	+ 11	Dublin City ..	•	•	•	2	25	•	•	•	•
a Waterford	120	53	10th	31	14th	47·4	36·1	41·6	- 2·1	7	1·03	26	+ 13	Birr Castle ..	2·1	- 1·0	18	4	17	•	•	•	•
p Seskin, Carrick-on-Suir	541	53	10th	30	14th	46·6	35·0	40·6	—	7	1·06	27	—	Seskin	2·6	—	22	2	24	•	•	•	•
a Cahir	199	52	10th	27	14th	48·0	34·9	41·3	- 1·5	6	1·11	28											
a Foynes	50	53	9, 10	31	12, 14	48·7	36·0	42·2	- 1·6	4	0·75	19	+ 5										
a Cahirciveen (Val. Obs.)	30	52	9, 10	31	14, 15	48·7	36·6	42·5	- 2·5	5	1·42	36	+ 14	Cahirciveen ..	3·8	+ 0·3	33	1	28	•	•	•	•
a Killarney	174	55	15th	30	12th	51·5	35·6	43·3	- 0·8	6	0·92	23	0	Ballinacurra ..	3·5	- 0·4	30	•	•	•	•	•	•
a Roche's Point	32	51	10th	35	14, 15	48·7	37·3	42·8	- 1·5	7	1·19	30	+16										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	52	9, 10	39	12th	50·0	42·4	46·1	+ 0·2	7	1·86	47	+ 36	Scilly	3·8	- 0·9	33	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	55	10th	37	15th	50·3	41·4	45·7	+ 0·8	5	0·52	13	+ 2	St. Heliers ..	4·4	- 0·5	38	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	53	9-11	38	15th	50·1	41·9	45·9	+ 0·5	5	0·27	7	- 5	Guernsey† ..	4·8	- 0·2	41	2	28	46·4	+1·4	46·6	+0·7

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, March 15th, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
														day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.						
Deerness (Cup Anr.)** ..	188	16	5	—	—	8, 10 to 13	31	98	37	2	0	146	16	10	12	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	18	127	23	0	225	9	11	9	19	11	9	30
Aberdeen	153	105	52	—	—	11	6	52	88	22	0	225	13	11	10	21	11	10	10
Edinburgh	485	39	31	—	—	10, 11	13	77	75	3	0	191	15	10	11	22	11	3	10
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	11, 12	8	93	42	25	0	40	13	12	10	20	12	10	25
Paisley	188	81	15	—	—	—	—	38	103	27	0	225	9	11	8	20	11	2	15
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	49	86	33	0	180	8	10	10	16	12	10	30
South Shields	72	61	12	—	—	12	6	70	88	6	0	45	13	12	11	20	12	10	10
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	—	—	41	113	14	0	180	9	10	14	—	—	—	—
Gorleston	52	42	‡	—	—	10, 11	6	64	92	6	0	203	11	10	21	17	10	21	0
Shoeburyness	103	90	‡	—	—	10 to 12	28	55	77	8	0	225	15	10	23	21	10	22	45
4. MIDLAND COUNTIES																			
Benson	270	84	‡	—	—	10	5	48	64	51	0	225	12	10	21	18	10	21	10
5. ENGLAND, S.E.																			
Warlingham	642	33	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Brighton	261	53	6	—	—	—	—	61	69	14	24	—	9	12	23	15	13	1	20
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	10 to 12	36	66	63	3	0	180	15	10	19	20	10	19	5
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	28	52	88	0	214	9	10	22	16	11	11	25
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	11	72	85	0	169	8	10	11	14	10	16	10
Fleetwood (Cup Anr.) ..	109	44	‡	—	—	12	12	70	85	1	0	23	15	12	10	—	—	—	—
Southport	80	62	48	—	—	10 to 12	16	117	35	0	0	23	14	12	6	19	10	14	25
Holyhead	60	40	‡	—	—	10, 12	27	63	61	17	0	23	15	12	12	19	10	8	55
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	10, 11	20	10 to 12	28	38	57	25	0	203	20	10	22	25	10	22	10
Plymouth	185	88	2	—	—	10, 11	24	33	80	31	0	—	17	11	8	20	11	8	55
Lyme Regis	556	61	‡	—	—	10 to 12	15	67	53	33	0	—	14	10	23	18	12	13	0
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	10, 12	8	62	79	19	0	180	13	10	5	—	—	—	—
Quilty	100	40	‡‡	—	—	10	4	41	85	15	23	—	14	10	8	19	10	8	15
Cahirciveen (Val. Obs.)	98	41	‡‡	—	—	9, 10, 15	12	44	79	33	0	210	14	10	7	21	10	6	15
Weaver Pt.	160	30	‡	—	—	9, 10	13	58	88	4	5	—	16	10	9	24	10	9	10
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	10 to 13	35	74	46	13	0	337	16	12	3	21	11	23	55

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. * Above tops of trees ** For Deerness the week ends at midnight on Friday

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

ELEVENTH WEEK of 1919—March 9th to March 15th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Temperature of the Air. At any "D.-V." Station. Lowest	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Accumulated Deviation from Normal.	Accumulated Below 42°	Accumulated Deviation from Normal.	Rainfall. Number of Rain-Days.	Rainfall. Deviation from Normal.	Rainfall. Total Fall.	Rainfall. Deviation from Normal.	Sunshine. Daily Mean.	Sunshine. Deviation from Normal.	Sunshine. Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	49	29	79·3	73·9	76·5	− 0·4	4	− 5	29	− 2	5	0	0·60	15	− 11	5·1	+1·9	45	1010
Eastern.																			
1. SCOTLAND, EAST ...	50	27	79·2	73·6	76·3	− 0·7	3	− 10	32	− 3	5	+ 1	0·77	20	+ 6	2·3	−1·2	20	1010
2. ENGLAND, N.E.	55	29	80·2	74·9	77·5	− 0·4	8	− 11	24	− 3	6	+ 2	1·11	28	+ 19	0·8	−3·2	7	1009
3. ENGLAND, EAST ...	56	27	82·1	75·2	78·6	+ 0·5	18	− 5	17	− 11	5	+ 2	0·42	11	+ 3	1·8	−2·0	16	1011
4. MIDLAND COUNTIES ...	56	25	81·6	74·2	77·8	− 0·4	15	− 9	30	+ 2	4	+ 1	1·39	35	+ 26	2·1	−1·4	18	1011
5. ENGLAND, S.E.	54	28	82·3	76·2	79·2	+ 0·5	26	+ 3	12	− 9	5	+ 2	0·37	9	− 1	2·5	−1·3	22	1012
Western.																			
6. SCOTLAND, WEST ...	52	25	81·1	74·4	77·7	− 0·2	13	− 2	28	+ 4	3	− 1	0·80	20	+ 1	4·1	+0·7	36	1011
7. ENGLAND, N.W.	56	29	80·3	75·0	77·6	− 0·7	9	− 9	23	+ 2	4	0	1·54	39	+ 26	2·2	−1·2	19	1011
8. ENGLAND, S.W.	58	21	81·7	75·5	78·5	− 0·4	16	− 8	22	+ 5	5	+ 1	1·23	31	+ 17	3·3	−0·3	30	1012
9. IRELAND, NORTH ...	53	23	81·3	74·2	77·7	− 1·1	14	− 6	29	+ 9	4	− 1	0·49	12	− 3	3·8	+0·7	32	1011
10. IRELAND, SOUTH ...	56	25	82·1	75·0	78·4	− 1·0	18	− 9	25	+ 10	6	+ 2	0·87	22	+ 7	3·1	−0·3	26	1013
11. ENGLISH CHANNEL ...	55	37	83·1	78·5	80·7	+ 0·3	28	− 3	0	− 6	6	+ 2	0·88	22	+ 11	4·3	−0·6	37	1014

THE SEASON (Spring).—Aggregates, &c., for the Period of 2 Weeks, March 2nd to March 15th, 1919.

0. SCOTLAND, NORTH ...	49	20	78·7	72·8	75·6	− 1·1	4	− 13	77	+ 12	10	0	1·36	34	− 21	4·3	+1·5	39	1006
Eastern.																			
1. SCOTLAND, EAST ...	54	14	78·8	72·2	75·4	− 1·4	3	− 20	83	+ 10	7	− 2	0·94	24	− 6	3·4	+0·1	30	1008
2. ENGLAND, N.E.	56	19	80·3	74·2	77·1	− 0·5	17	− 16	57	+ 1	10	+ 2	1·73	44	+ 23	1·7	−2·0	15	1008
3. ENGLAND, EAST ...	58	27	81·7	75·7	78·6	+ 0·8	38	− 2	30	− 28	11	+ 4	1·48	38	+ 19	1·7	−1·9	15	1010
4. MIDLAND COUNTIES ...	58	25	81·2	74·6	77·8	0·0	26	− 15	55	− 5	10	+ 3	2·42	61	+ 40	2·0	−1·2	18	1010
5. ENGLAND, S.E.	58	28	82·6	76·7	79·6	+ 1·2	54	+ 12	19	− 26	12	+ 5	2·34	59	+ 35	2·1	−1·5	19	1011
Western.																			
6. SCOTLAND, WEST ...	52	20	80·2	73·5	76·8	− 0·9	17	− 9	66	+ 15	8	− 1	1·47	37	− 6	3·2	0·0	28	1009
7. ENGLAND, N.W.	56	22	80·2	74·5	77·3	− 0·7	17	− 14	53	+ 7	9	+ 1	2·82	72	+ 42	2·2	−1·1	20	1009
8. ENGLAND, S.W.	59	21	82·0	76·2	79·0	+ 0·4	40	− 2	30	− 8	12	+ 4	3·21	81	+ 46	3·1	−0·5	27	1011
9. IRELAND, NORTH ...	53	22	81·0	73·8	77·3	− 1·1	25	− 11	63	+ 19	9	− 1	1·14	28	− 5	3·1	+0·1	27	1009
10. IRELAND, SOUTH ...	56	25	81·7	75·1	78·3	− 0·8	31	− 18	50	+ 15	11	+ 3	1·70	43	+ 8	3·0	−0·5	26	1011
11. ENGLISH CHANNEL ...	55	37	83·5	78·9	81·2	+ 1·1	66	+ 10	0	− 15	12	+ 3	2·74	69	+ 39	4·0	−0·4	35	1012

THE YEAR 1919.—Aggregates, &c., for the Period of 11 Weeks, December 29th, 1918, to March 15th, 1919.

0. SCOTLAND, NORTH ...	50	11	77·7	72·5	75·2	− 1·2	8	− 68	485	+ 100	46	−10	7·35	187	−143	2·1	+0·4	24	1006
Eastern.																			
1. SCOTLAND, EAST ...	54	5	77·3	71·8	74·6	− 1·5	3	− 83	551	+ 104	44	− 1	6·61	169	+ 12	1·9	−0·3	22	1007
2. ENGLAND, N.E.	56	11	78·3	73·4	75·8	− 1·0	27	− 88	422	+ 61	52	+10	7·59	194	+ 84	1·5	−0·8	17	1007
3. ENGLAND, EAST ...	58	10	78·8	73·5	76·2	− 0·6	73	− 58	419	+ 34	51	+ 9	7·16	183	+ 75	1·5	−1·0	16	1009
4. MIDLAND COUNTIES ...	58	9	78·4	73·1	75·7	− 1·1	49	− 93	466	+ 70	47	+ 5	8·65	219	+ 92	1·6	−0·6	17	1008
5. ENGLAND, S.E.	58	16	79·6	74·5	77·1	− 0·4	137	− 22	321	+ 16	54	+13	9·44	239	+101	1·7	−0·7	18	1009
Western.																			
6. SCOTLAND, WEST ...	54	14	78·7	73·6	76·2	− 1·0	34	− 78	381	+ 71	44	− 7	8·36	212	− 56	1·9	−0·1	21	1007
7. ENGLAND, N.W.	56	16	78·8	74·0	76·4	− 1·0	38	− 85	360	+ 64	48	+ 3	7·88	199	+ 21	1·8	−0·3	20	1007
8. ENGLAND, S.W.	59	15	79·8	74·9	77·4	− 0·7	122	− 64	284	+ 45	55	+ 9	13·06	332	+120	2·4	0·0	25	1007
9. IRELAND, NORTH ...	53	22	79·8	74·4	77·1	− 0·9	82	− 78	307	+ 48	50	− 4	6·81	171	− 34	2·4	+0·3	27	1005
10. IRELAND, SOUTH ...	56	22	80·6	75·1	77·9	− 0·8	141	− 90	257	+ 54	52	+ 3	9·15	233	+ 6	2·5	+0·1	27	1006
11. ENGLISH CHANNEL ...	56	26	81·7	77·6	79·6	− 0·2	234	− 39	84	− 9	60	+ 9	14·42	365	+185	2·4	−0·6	25	1008
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F			inches.	mm	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: COL. H. G. LYONS, R.E., F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: March 21st, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) No. 12.

THE TWELFTH WEEK OF 1919.

SUNDAY, MARCH 16TH, TO SATURDAY, MARCH 22ND, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

At the beginning of the week an area of high pressure was situated over our western districts and fair weather prevailed over the British Isles generally. A depression from the Iceland region began to approach our north-western coasts on Tuesday, and subsequently travelled south-eastwards and dominated the weather to the end of the period. Gales from the eastward or south-eastward prevailed on many parts of the coast on Wednesday and Thursday. The mean temperature was everywhere below the normal, the divergence varying between 1·5 a. in the English Channel and 3 a. in Scotland E. Maxima above 283 a. occurred only in Ireland and England S.W.; in fact, in the middle days of the week in many parts of Great Britain the thermometer failed to exceed 275 a., and at some high level stations in Scotland it did not go above 273 a. Minima of 269 a. and below were registered on the 22nd in Scotland, the actual lowest being 263 a. at West Linton. Precipitation occurred on four or five days; in the northern districts it was mostly snow, sleet and hail. The total fall exceeded the normal in most districts, but Scotland N. and E. again showed deficits. On the 18th and 19th rain fell heavily and continuously over western Scotland and a large part of England, amounts of 20mm. and upwards being measured at many stations on both days, while the aggregate fall for the two days was as much as 60mm. at Douglas (Isle of Man), 66mm. at Beddgelert (Snowdonia), and 70mm. at Cally (Kirkcudbright). "Snow lying" was reported nearly all the week in some parts of Scotland. Scotland N. was the only district where the daily amount of bright sunshine was above the normal; the deficit in England S.E. was as much as three hours. There was a display of aurora in the north of Scotland on the 21st; solar halos were seen at Aberdeen and Oxford on the 17th or 18th, and on the same dates lunar halos in many parts of Great Britain.

Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.*		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s *	¼-day	m/s	¼-day	m/s
South	13	3·8	9	3·1	—	—	8	2·9	6	5·3	8	2·7	4	4·6	7	3·4
North	7	4·6	9	2·7	—	—	16	3·2	18	3·3	19	4·2	15	3·1	14	4·6
West	8	4·7	8	4·0	—	—	8	1·5	12	3·7	14	5·3	14	5·1	9	4·0
East	19	6·4	15	5·0	—	—	13	3·1	14	7·6	11	4·4	10	9·1	12	3·2
Calm	1	—	4	—	—	—	4	—	1	—	0	—	2	—	6	—

* For Scotland N. (Deerness) the week ends at midnight on Friday.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *see below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Very deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient
	Rainfall ...	Light	Moderate	Heavy	Moderate	Very heavy	Heavy	Very heavy	Heavy	Heavy	Heavy	Moderate	Heavy
	Sunshine ...	Abundant	Moderate	Scanty	Scanty	Scanty	Very scanty	Scanty	Scanty	Moderate	Scanty	Scanty	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SPRING. 3 weeks from March 2nd, 1919.	Warmth ...	0, 1, 2	0, 1, 2	0, 2, 1	0, 2, 1	0, 2, 1	1, 1, 1	0, 1, 2	0, 2, 1	0, 2, 1	0, 0, 3	0, 0, 3	0 2, 1
	Rainfall ...	0, 1, 2	1, 1, 1	3, 0, 0	1, 2, 0	3, 0, 0	2, 1, 0	1, 2, 0	3, 0, 0	3, 0, 0	1, 2, 0	0, 3, 0	3, 0, 0
	Sunshine ...	3, 0, 0	1, 1, 1	0, 0, 3	0, 0, 3	0, 0, 3	0, 0, 3	0, 2, 1	0, 1, 2	0, 3, 0	0, 1, 2	0, 2, 1	0, 2, 1

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of 9/5° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(22415—19.) Wt. 199—789. 625. 3/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

['TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.			Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average	Earth 4 ft Mean.	Earth 4 ft Deviation from Average
		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.			hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																							
a, Islands .. a Lerwick ..	54	45	17th	31	22nd	41·0	33·6	37·2	- 1·4	6	0·28	7	- 10										
a Houton Bay	520	44	16th	29	20–22	39·3	31·6	35·3	—	5	0·45	11	- 4	Houton Bay	4·3	+ 1·0	36	3	23	•	•	•	•
a Stornoway	51	50	16th	28	22nd	43·4	33·0	38·1	- 1·8	5	0·63	16	- 7	Stornoway	4·5	+ 1·0	37	•	•	•	•	•	•
a Castlebay, Barra Isd.	37	—	—	—	—	—	—	—	—	—	—	—	—	Castlebay	—	—	—	•	•	•	•	•	•
b, Mainland. a Wick	81	46	16th	28	22nd	40·6	32·9	36·6	- 2·8	5	0·21	5	- 8	Fort Augustus	—	—	—	•	•	•	•	•	•
a Strathpeffer	125	49	16th	22	22nd	41·7	29·3	35·3	- 4·4	3	0·30	8	- 7										
p Glencarron	500	46	16, 17	21	22nd	40·3	29·3	34·6	- 4·3	4	0·25	6	- 37										
a Fort Augustus	68	47	17th	18	22nd	42·6	29·9	36·1	- 3·8	?	?	?	?										
p Fort William	171	49	17th	21	22nd	42·7	31·4	36·9	- 3·9	4	0·30	8	- 28										
1. SCOTLAND, E.																							
a Nairn	82	47	17th	21	22nd	40·7	27·9	34·1	- 5·9	3	0·11	3	- 8	Nairn	3·8	—	32	•	•	•	•	•	•
p Gordon Castle	101	46	16th	24	22nd	40·6	30·3	35·3	- 5·2	5	0·12	3	- 10	Gordon Castle	3·0	—	25	•	•	•	•	•	•
a Aberdeen	46	46	17th	20	16, 17, 22	42·0	31·9	36·8	- 3·6	5	0·11	3	- 11	Aberdeen	4·1	0·0	34	5	20	•	•	38·6	-1·6
a Balmoral	930	42	17th	17	22nd	36·1	26·3	31·1	- 5·3	6	0·54	14	- 3	Balmoral	•	•	•	7	12	•	•	•	•
p Crieff	432	48	17th	21	22nd	39·3	29·1	34·1	- 6·4	4	0·98	25	+ 7	Crathes	3·0	- 1·0	25	6	15	34·7	-4·1	36·1	-3·1
a Dundee	244	47	17th	25	22nd	40·9	29·9	35·2	- 5·0	4	0·76	19	+ 7	Dundee	2·5	—	21	6	23	35·6	•	•	•
a Leith	30	46	17th	29	22nd	40·6	32·1	36·2	- 5·5	4	0·35	9	- 1	Leith	—	—	—	4	24	•	•	•	•
p Edinburgh	441	46	17th	26	22nd	39·1	31·4	35·1	- 5·1	4	0·35	9	- 1	Edinburgh	2·0	- 2·0	17	4	16	•	•	•	•
a West Linton	789	45	17th	14	22nd	37·0	27·0	31·9	- 5·4	4	0·76	19	—	West Linton	2·5	—	21	6	15	•	•	•	•
p Marchmont	498	48	17th	25	22nd	40·0	29·7	34·7	- 4·7	4	0·67	17	+ 2	Marchmont	2·5	- 1·3	21	•	•	•	•	•	•
6. a, SCOTLAND, W.																							
a Ford (Argyll)	149	49	16th	23	22nd	41·0	30·7	35·7	—	5	1·91	49	—	Ford (Argyll)	•	•	•	5	14	37·0	•	39·2	•
p Glasgow Observatory	180	47	17th	29	22nd	39·7	32·6	36·1	- 4·9	3	1·56	40	+ 25	Glasgow	2·2	- 0·9	18	5	24	•	•	•	•
p Rothesay	200	47	17th	29	22nd	40·4	33·1	36·6	- 5·0	6	1·21	31	+ 11	Rothesay	2·5	—	21	5	26	38·1	•	40·5	-1·9
a Kilmarnock	90	47	16th	29	22nd	40·7	32·4	36·4	- 4·1	2	0·78	20	+ 5	Kilmarnock	1·9	—	16	•	•	37·3	•	40·2	—
a Colmonell	170	48	16, 17	27	22nd	41·7	31·6	36·5	- 4·6	3	2·33	59	+ 41	Colmonell	•	•	•	4	23	•	•	•	•
p Cally, Gatehouse	120	48	17th	28	22nd	40·6	30·7	35·5	- 5·4	2	2·87	73	+ 52	Dumfries	2·4	—	20	5	21	37·3	-3·6	40·0	-1·9
p Dumfries	160	43	16th	28	22nd	39·0	30·7	34·7	- 6·5	3	1·87	48	+ 33	Eskdalemuir	2·8	—	23	6	17	•	•	•	•
a Eskdalemuir	794	46	17th	22	22nd	37·1	25·4	31·1	—	3	0·41	10	—										
b, I. OF MAN p Douglas	277	47	16th	30	22nd	42·7	34·3	38·4	- 3·4	4	2·41	61	+ 45	Douglas	2·1	- 2·6	18	3	27	•	•	•	•
2. ENGLAND, N.E.																							
a North .. a Alnwick Castle	210	48	17th	29	22nd	41·1	32·1	36·5	- 4·0	4	0·75	19	+ 6										
a Tynemouth	71	49	17th	31	22nd	41·6	33·4	37·4	- 3·4	3	0·31	8	- 2	Cockle Park	2·8	- 1·7	23	5	25	35·8	-3·1	38·9	-1·4
p Durham	336	48	17th	30	18, 21	40·9	31·4	36·0	- 4·4	5	1·07	27	+ 17	Durham	3·0	- 1·0	25	6	21	•	•	•	•
p Rounton	249	48	17th	28	22nd	41·6	30·6	36·9	- 4·3	6	0·52	13	+ 3	Rounton	•	•	•	7	21	38·1	•	•	•
a West Witton	605	48	16th	27	22nd	40·6	30·9	35·6	—	5	1·37	35	—	West Witton	•	•	•	6	23	36·1	•	37·1	•
p Scarborough	100	49	17th	31	22nd	42·9	34·1	38·4	- 3·3	4	0·36	9	- 1	Scarborough†	2·6	- 1·8	22	•	•	•	•	39·1	•
p York	58	46	16, 17	30	22nd	42·3	33·0	37·5	- 4·4	5	0·60	15	+ 5	York	2·4	- 1·3	20	—	—	39·2	-1·9	40·9	-0·9
b, South .. a Spurn Head	26	46	17th	31	22nd	41·0	34·3	37·6	- 3·8	4	0·49	12	+ 4	Spurn Head	2·1	—	18	•	•	•	•	•	•
a Lincoln	58	48	17th	30	22nd	42·1	32·6	37·2	- 4·8	5	0·85	22	+ 13	Lincoln	•	•	•	5	28	38·3	-1·8	40·9	-0·6
a Fulbeck	180	49	17th	28	18th	41·6	31·1	36·2	- 5·7	6	1·33	34	+ 24	Fulbeck*	1·8	- 2·7	15	•	•	39·0	—	41·9	-1·2
														Skegness	2·3	- 2·5	19	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	45	17th	30	19th	41·4	34·1	37·6	- 3·9	7	0·27	7	- 3	Cromer	2·4	- 2·1	20	•	•	•	•	•	•
a Little Massingham	280	46	17th	27	19th	41·4	30·7	35·9	- 5·6	5	0·44	11	- 3	Lit. Massingham	2·0	- 2·4	17	•	•	•	•	•	•
a Yarmouth	13	46	17th	32	19th	41·6	35·1	38·3	- 2·7	5	0·26	7	- 5	Yarmouth	2·8	—	23	1	29	41·9	-0·6	44·0	-0·1
a Norwich	93	46	17th	26	19th	42·4	33·0	37·6	- 4·4	6	0·50	13	- 1	Norwich	2·0	—	17	3	21	39·6	•	•	•
a Geldeston	37	50	17th	23	19th	43·4	31·0	37·0	- 4·8	7	0·33	8	- 4	Geldeston	2·3	- 2·1	19	•	•	•	•	•	•
p Cambridge	41	49	17th	28	17th	42·4	31·3	36·7	- 5·4	5	0·32	8	- 2	Cambridge	1·8	- 2·5	15	3	24	41·0	-1·5	42·9	-0·7
a Clacton-on-Sea	54	48	17th	30	19th	42·7	33·7	38·1	- 3·3	4	0·37	9	- 1	Clacton	2·0	- 2·7	17	4	22	41·0	-2·0	44·1	-0·5
a Rothamsted	424	46	17th	30	22nd	40·3	32·0	36·0	- 5·3	4	0·82	21	+ 7	Rothamsted	1·6	- 2·5	13	4	22	38·5	•	•	•
p Tottenham	51	48	17th	32	19, 22	42·6	34·3	38·3	—	4	0·95	24	—	Tottenham	0·8	—	7	1	30	•	•	43·3	-0·7
4. MIDLAND COUNTIES.																							
a North .. a Harrogate	479	47	16, 17	28	22nd	40·6	30·9	35·6	- 4·3	4	1·44	37	+ 25	Harrogate	3·0	- 1·1	25	5	25	37·5	-2·4	39·4	-1·4
p Sheffield	429	47	17th	28	22nd	40·6	32·1	36·2	—	5	1·31	33	—	Sheffield	2·1	- 1·5	18	3	23	37·0	-3·1	39·7	-1·5
p Buxton	987	48	17th	23	22nd	38·3	29·3	33·7	—	4	1·27	32	+ 10	Buxton	1·9	—	16	4	23	35·7	-3·9	38·7	-2·4
b, East .. a Bawtry	65	48	17th	28	22nd	42·4	31·7	36·9	- 4·7	4	0·77	20	+ 11	Worksop	2·5	- 1·1	21	5	20	39·3	—	40·9	•
a Nottingham	82	48	17th	30	19, 22	41·3	32·1	36·6	- 4·8	5	1·23	31	+ 22	Nottingham	1·8	- 1·9	15	4	24	36·9	-3·4	38·8	-1·9
p Birmingham, Edgbsn.	535	45	16, 17	29	22nd	39·3	32·0	35·5	- 5·7	4	1·71	43	+ 32	Birmingham	1·4	- 1·6	12	4	25	37·6	-3·3	42·2	-1·2
a Raunds	203	48	17th	29	17th	41·4	31·3	36·2	- 5·2	5	1·28	32	+ 23	Raunds	1·7	—	14	5	21	41·4	•	42·5	•
p Oxford	208	47	17th	32	17, 18, 22	41·9	32·9	37·3	- 4·8	4	1·72	44	+ 34	Oxford	2·1	- 1·8	18	3	23	•	•	•	•
														Malvern	1·7	—	14	7	26	38·4	—	41·0	—
c, West .. a Cheadle (N. Staffs.)	646	46	17th	26	22nd	39·4	30·3	34·7	- 5·5	4	2·35	60	+ 47	Cheadle	•	•	•	5	25	•	•	•	•
p Tenbury	313	48	16, 17	28	18, 22	42·1	31·3	36·5	- 5·6	4	1·93	50	+ 41	Tenbury	•	•	•	5	24	39·1	•	•	•
p Ross-on-Wye	201	50	16th	30	18, 22	43·4	32·7	37·9	- 4·5	4	1·57	40	+ 30	Ross-on-Wye	2·0	—	17	4	28	—	—	•	•
a Clifton	228	48	16th	31	18th	43·1	33·6	38·2	- 4·5	4	1·78	45	+ 29	Clifton	2·0	—	17	1	27	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	48	17th	29	18th	41·7	32·0	36·7	- 4·1	6	1·91	49	+ 34	Worthing	1·2	- 3·7	10	1	29	41·8	-1·7	44·7	-0·1
p Salisbury (Wilton)	180	49	17th	29	18th	43·9	31·3	37·4	- 4·2	3	2·02	51	+ 35	Marlborough	1·5	- 2·2	13	4	19	41·4	•	44·7	—
a Wisley, Surrey	150	47	17th	31	18, 21	42·1	33·0	37·4	- 4·6	4	0·83	21	+ 10	Salisbury	•	•	•	4	24	41·4	•	•	•
a Tunbridge Wells	354	47	17th	29	19th	41·6	33·3	37·3	- 4·4	6	0·78	20	+ 6	Wisley	0·8	- 3·3	7	4	16	40·6	-1·6	43·1	-0·4
a Margate	51	46	17th	33	20, 22	43·0	35·6	39·2	- 3·4	5	0·46	12	+ 2	Tunbridge Wells	0·4	- 4·1	3	5	26	41·3	+0·5	43·5	—
														Margate	2·0	- 2·5	17	2	27	42·0	-1·0	44·1	+0·3
a Dungeness	21	48	17th	29	17th	43·6	34·0	38·7	- 3·1	6	0·43	11	0	Folkestone	2·5	—	21	•	•	•	•	44·7	—
p St. Leonards	178	48	17th	33	17, 22	43·4	35·0	39·1	- 3·4	6	0·98	25	+ 12	St. Leonards	1·6	- 3·2	13	3	28	41·7	•	44·0	—
p Southampton	64	49	17th	31	18th	43·6	33·1	38·2	- 5·5	3	1·30	33	+ 19	Southampton	1·2	- 3·3	10	4	21	•	•	•	•
a Ventnor	59	50	17th	34	22nd	44·9	35·3	40·0	- 4·0	5	0·79	20	+ 8	Ventnor	1·8	- 3·2	15	•	•	•	•	•	•
LONDON, a Richmond (Kew Obs.)	18	48	17th	32	18th	42·3	34·0	38·0	- 4·5	4	0·86	22	+ 12	Richmond	0·8	- 3·0	7	4	20	40·5	-1·8	43·3	-0·8
a Westminster	27	49	17th	30	18th	43·5	34·5	38·9	- 4·3	5	0·78	20	+ 10	Westminster	0·4	- 2·4	3	4	28	•	•	•	•
ag Greenwich	149	48	17th	31	19, 21	42·6	33·4	37·9	- 5·5	5	0·48	12	+ 2	Greenwich	0·7	- 2·7	6	5	23	•	•	•	•
a Hampstead	450	47	17th	30	22nd	40·6	32·0	36·2	—	5	1·06	27	—	Hampstead	1·1	—	9	7	25	•	•	•	•
ag Camden Square	110	49	17th	30	21st	43·9	33·9	38·8	- 4·3	5	1·08	27	+ 16	Camden Square	0·9	- 2·3	8	4	29	•	•	•	•
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	44	17th	26	22nd	39·3	30·7	34·9	- 5·7	2	0·36	9	- 7	Aspatria	2·4	- 1·8	20	5	23	37·6	-4·3	40·7	-2·8
p Newton Rigg	559	47	16th	26	22nd	39·4	29·3	34·2	- 5·5	3	0·70	18	+ 3	Newton Rigg	2·7	- 1·5	23	5	20	37·6	-2·8	39·4	-1·3
p Stonyhurst	375	46	16, 17	26	22nd	40·7	32·0	36·2	- 4·4	3	0·69	17	- 2	Stonyhurst	3·0	- 0·8	25	5	20	•	•	•	•
p Blackpool	99	46	16th	27	22nd	41·3	32·9	37·0	- 4·4	4	1·72	44	+ 32	Blackpool	2·9	- 1·7	24	6	16	39·6	•	41·6	—
a Southport	37	45	16th	28	22nd	41·0	33·0	36·9	- 4·8	4	1·55	39	+ 27	Southport	2·9	- 1·5	24	3	20	37·7	-3·9	40·4	-2·0
														Hoylake	1·1	- 3·1	9	•	•	•	•	•	•
a Liverpool (Eidston)	188	45	17th	29	22nd	39·7	32·9	36·2	- 6·0	4	1·59	40	+ 30	Liverpool	1·1	—	9	4	25	•	•	•	•
a Hawarden Bridge	22	47	17th	30	22nd	42·4	34·4	38·3	- 4·6	4	1·74	44	+ 35	Manchester (City)	2·2	- 0·8	18	3	27	37·2	-3·2	40·7	-2·3
p Manchester (Whit. Pk.)	155	47	16th	31	18, 22	40·7	33·7	37·1	- 5·4	3	0·85	22	+ 10	Whitworth Park	1·9	- 0·8	16	•	•	•	•	•	•
b NORTH WALES.																							
p Llandudno	16	47	16th	30	16, 22	43·3	34·4	38·7	- 4·4	6	1·38	35	+ 24	Llandudno	1·4	- 3·1	12	•	•	•	•	•	•
a Holyhead	15	49	16th	32	22nd	43·6	35·7	39·5	- 3·3	3	1·93	49	+ 35	Holyhead	1·8	—	15	3	20	•	•	•	•
a Beddgelert	309	49	16th	28	16, 22	42·9	32·4	37·5	—	6	3·07	78	—	Aberdovey	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from average	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.
8. *a.* SOUTH WALES.																						
a Aberystwyth	59	46	19th	31	16, 22	43·1	34·6	38·7	—	3	1·37	35	—	Aberystwyth	3·0	– 1·2	25	•	•	•	•	•	•
a Rhayader	767	45	16th	28	18, 22	39·7	30·6	35·0	—	4	1·68	43	—	Rhayader	2·4	—	20	4	22	•	•	•	•
a St. Ann's Head	149	48	16th	26	21st	45·1	35·3	40·1	– 2·6	4	1·04	26	+ 12	St. Ann's Head	2·5	– 2·2	21	•	•	•	•	•	•
p Cardiff	202	50	16th	29	22nd	44·1	33·1	38·4	– 3·6	3	1·41	36	+ 19	Cardiff	2·1	—	18	5	21	40·0	– 2·3	43·0	– 0·6
b. ENGLAND S.W.																							
a Bath	66	49	16, 17	29	18th	44·6	33·1	38·7	– 3·7	4	2·03	52	+ 39	Bath	•	•	•	•	•	41·5	– 1·5	43·9	0·0
a Shaftesbury	722	46	16th	30	18, 20, 22	41·1	30·9	35·9	– 5·1	3	1·39	35	+ 21	Shaftesbury	•	•	•	•	•	40·1	•	42·8	•
a Arlington	613	47	16, 19	30	22nd	43·6	33·3	38·3	– 3·0	4	1·57	40	+ 18										
a Newquay	190	49	18, 19	29	22nd	46·6	37·1	41·7	– 2·4	4	0·41	10	– 4	Newquay	4·5	– 0·3	38	2	24	45·6	•	46·8	•
a Cullompton	202	51	16th	30	18th	46·4	34·1	40·1	– 2·6	3	1·16	30	+ 15	Cullompton	2·1	– 2·2	18	5	22	42·7	•	•	•
a Portland Bill	19	47	16, 17	35	22nd	44·6	38·0	41·2	– 2·0	2	0·83	21	+ 10	Weymouth	2·5	—	21	•	•	•	•	•	•
p Plymouth	116	51	16th	31	22nd	48·0	36·7	42·2	– 1·8	4	0·99	25	+ 9	Plymouth	4·2	– 0·5	35	4	24	43·3	– 1·5	46·0	•
a Falmouth	167	51	16th	31	22nd	48·3	36·3	42·1	– 2·1	6	0·67	17	– 2	Falmouth	4·5	– 0·5	38	3	27	46·6	•	47·5	•
9. IRELAND. N.																							
a West — *a* Malin Head	208	47	18th	32	22nd	42·3	35·9	39·0	– 2·8	5	1·14	29	+ 16	Malin Head	2·9	—	24	•	•	•	•	•	•
a West — *a* Blacksod Point	327	48	16th	29	22nd	43·9	36·0	39·8	– 3·4	4	0·67	17	– 5	Markree Castle	1·6	– 2·3	13	5	20	41·8	– 1·6	43·0	– 1·3
p Markree Castle	122	52	18th	25	22nd	46·1	32·4	39·1	– 2·6	4	1·41	36	+ 18										
b. East — *p* Armagh	196	50	16, 17	27	22nd	45·1	32·1	38·4	– 3·2	6	1·09	28	+ 15	Armagh	1·6	– 2·2	13	5	19	40·5	– 1·8	42·2	– 1·3
b. East — *a* Donaghadee	101	47	16th	31	22nd	43·1	33·9	38·4	– 3·6	4	2·09	53	+ 41										
10. IRELAND, S.																							
p Dublin, City	47	52	16th	32	22nd	46·0	35·3	40·5	– 3·1	6	0·96	24	+ 13	Trinity Coll.	•	•	•	4	26	42·2	– 1·3	43·9	– 0·7
a Birr Castle	175	51	18th	28	22nd	45·1	31·6	38·2	– 3·7	6	0·47	12	– 1	Phœnix Park	1·7	– 2·6	14	5	21	•	•	•	•
a Kilkenny	212	53	18th	29	20, 22	45·9	33·6	39·6	– 2·8	5	0·55	14	+ 1	Dublin City	•	•	•	2	30	•	•	•	•
a Waterford	120	53	16, 18	31	22nd	46·6	36·4	41·4	– 2·2	3	0·46	12	– 3	Birr Castle	1·7	– 2·2	14	5	21	•	•	•	•
p Seskin, Carrick-on-Suir	541	52	16th	27	22nd	45·6	32·9	39·1	—	6	0·43	11	—	Seskin	1·2	—	10	3	23	•	•	•	•
a Cahir	199	52	18th	28	22nd	45·9	34·1	39·8	– 2·9	6	0·60	15											
a Foynes	50	51	16, 18	28	22nd	45·9	36·1	40·9	– 2·8	6	0·41	10	– 6										
a Cahirciveen (Val. Obs.)	30	52	18th	33	20, 21	47·0	36·6	41·7	– 3·1	5	0·71	18	– 6	Cahirciveen	4·6	+ 0·3	38	1	39	•	•	•	•
a Killarney	174	54	16th	28	22nd	47·9	34·9	41·2	– 2·8	7	0·54	14	– 11	Ballinacurra	2·1	– 2·7	18	•	•	•	•	•	•
a Roche's Point	32	54	16, 18	32	22nd	47·9	37·4	42·5	– 1·6	6	0·49	12	– 4										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's	131	50	16, 18	37	21st	48·7	40·6	44·5	– 1·3	6	0·72	18	+ 3	Scilly	2·4	– 2·3	20	•	•	•	•	•	•
a Jersey, St. Aubins	25	48	17, 18, 20	32	21, 22	47·0	37·0	41·9	– 3·3	4	1·00	25	+ 10	St. Heliers	4·0	– 1·0	33	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	49	17th	34	21st	47·1	38·0	42·4	– 3·1	4	1·22	31	+ 15	Guernsey†	3·7	– 1·3	31	3	30	43·9	– 1·8	46·3	0·0

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, March 22nd, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time. day.	hr.	Highest Gust. Speed.	Date d.	h.	m.
0. SCOTLAND, N.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
Deerness (Cup Anr.)**	188	16	5	—	—	17, 19, 20	28	69	66	5	0	113	16	19	9	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	40	80	27	21	146	9	19	17	24	17	11	55
Aberdeen	153	105	52	—	—	17, 19, 20	28	51	50	39	0	121	17	19	17	23	19	17	0
Edinburgh	485	39	31	—	—	—	—	73	70	25	0	124	11	19	10	17	19	7	0
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	19, 20	24	60	43	41	0	130	16	19	16	24	19	9	50
Paisley	188	81	15	—	—	—	—	49	82	37	0	79	9	20	13	19	20	14	35
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	19	12	33	63	60	0	135	12	19	15	21	19	15	5
South Shields	72	61	12	19	5	19 to 21	42	34	64	23	0	146	18	19	14	23	19	22	55
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.)	73	60	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	19 to 22	56	58	52	3	0	—	13	20	11	19	19	20	35
Shoeburyness	103	90	‡	—	—	19 to 21	39	78	56	4	0	113	17	20	9	20	20	7	20
4. MIDLAND COUNTIES																			
Benson	270	84	‡	—	—	—	—	45	88	35	0	158	10	19	15	16	19	11	25
5. ENGLAND, S.E.																			
Warlingham	642	33	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Brighton	261	53	6	—	—	19	3	50	103	12	0	—	12	19	15	18	19	14	20
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	19	7	81	72	0	0	155	12	19	10	16	19	13	15
Richmond (Kew Obs.)	82	66	22	—	—	—	—	2	87	79	0	79	6	20	11	11	19	10	30
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	17	80	71	0	67	7	21	12	16	21	12	35
Fleetwood (Cup Anr.)	109	44	—	—	—	17, 19, 21	14	75	68	14	0	135	13	19	11	—	—	—	—
Southport	80	62	48	—	—	17, 19 to 21	36	68	61	3	0	67	13	21	3	19	20	16	10
Holyhead	80	40	‡	—	—	19 to 21	38	76	55	17	0	79	16	21	5	21	21	2	30
8. ENGLAND, S.W.																			
Pendennis Castle§	256	65	24	—	—	19, 21, 22	9	59	87	9	4	293	12	19	11	17	19	15	0
Plymouth	185	88	2	—	—	—	—	20	132	16	0	—	8	19	14	17	19	18	45
Lyme Regis	556	61	‡	—	—	19	2	60	73	33	0	—	13	19	21	17	19	20	20
10. IRELAND, S.																			
Kingstown (Cup Anr.)	49	27	—	21	1	19 to 21	32	64	59	12	0	67	17	21	8	—	—	—	—
Quilty	100	40	‡	—	—	19	13	73	59	25	8	—	11	19	6	21	19	5	30
Cahirciveen (Val. Obs.)	98	41	‡	—	—	19	8	82	54	24	0	300	12	19	7	29	19	13	30
Weaver Pt.	160	30	‡	—	—	19 to 21	22	83	60	5	0	—	14	19	12	22	19	3	5
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	18, 19	14	57	92	5	0	315	16	19	16	21	19	15	50

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]

* Above tops of trees.

‡ Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory.

** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

TWELFTH WEEK of 1919—March 16th to March 22nd, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Mean Pressure at M.S.L.
	At any "D.-V." Station.		Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.*	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	Highest	Lowest	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	50	18	78·4	72·6	75·4	− 1·8	0	− 13	39	+ 11	5	0	0·33	8	− 16	4·4	+1·2	37	1020
Eastern.																			
1. SCOTLAND, EAST ..	48	14	77·2	71·5	74·3	− 3·0	0	− 17	54	+ 23	4	0	0·46	12	− 2	3·1	−0·8	26	1019
2. ENGLAND, N.E.	49	28	78·4	73·3	75·8	− 2·3	0	− 20	35	+ 10	4	0	0·70	18	+ 8	2·5	−1·9	21	1017
3. ENGLAND, EAST ...	50	23	78·6	73·4	75·9	− 2·4	0	− 26	33	+ 8	5	+ 1	0·47	12	0	2·0	−2·3	16	1015
4. MIDLAND COUNTIES ...	50	26	78·3	72·9	75·6	− 2·6	0	− 26	38	+ 11	4	0	1·58	40	+ 29	2·1	−1·7	18	1016
5. ENGLAND, S.E.	50	29	79·1	73·9	76·4	− 2·4	3	− 23	29	+ 9	5	+ 1	1·04	26	+ 14	1·4	−3·0	12	1015
Western.																			
6. SCOTLAND, WEST ..	49	23	77·8	73·0	75·3	− 2·8	0	− 19	41	+ 19	4	0	1·87	47	+ 27	2·2	−1·7	18	1019
7. ENGLAND, N.W.	49	26	78·1	73·5	75·7	− 2·7	0	− 20	36	+ 15	4	0	1·21	31	+ 18	2·3	−1·7	19	1016
8. ENGLAND, S.W.	51	26	80·0	74·2	77·0	− 2·0	7	− 18	28	+ 11	4	0	1·28	33	+ 16	3·3	−1·1	28	1015
9. IRELAND, NORTH ...	52	25	79·8	73·9	76·8	− 1·8	6	− 16	29	+ 9	5	+ 1	1·15	29	+ 13	1·6	−2·2	13	1016
10. IRELAND, SOUTH ...	54	28	81·1	74·7	77·8	− 1·6	13	− 15	26	+ 11	6	+ 2	0·58	15	− 2	2·5	−1·7	21	1017
11. ENGLISH CHANNEL ...	50	32	81·7	76·6	79·1	− 1·4	21	− 9	10	+ 5	5	+ 1	0·98	25	+ 10	3·4	−1·5	28	1016

THE SEASON (Spring).—Aggregates, &c., for the Period of 3 Weeks, March 2nd to March 22nd, 1919.

0. SCOTLAND, NORTH ..	50	18	78·6	72·8	75·6	− 1·3	4	− 26	116	+ 23	15	0	1·69	42	− 37	4·3	+1·4	38	1011
Eastern.																			
1. SCOTLAND, EAST ...	54	14	78·3	72·0	75·0	− 2·0	3	− 37	137	+ 33	11	− 2	1·40	36	− 8	3·3	−0·2	29	1011
2. ENGLAND, N.E.	56	19	79·6	73·9	76·7	− 1·1	17	− 36	92	+ 11	14	+ 2	2·43	62	+ 31	1·9	−2·0	17	1011
3. ENGLAND, EAST ..	58	23	80·7	74·9	77·7	− 0·3	38	− 28	63	− 20	16	+ 5	1·95	50	+ 19	1·8	−2·0	15	1012
4. MIDLAND COUNTIES ...	58	25	80·2	74·0	77·0	− 0·9	26	− 41	93	+ 6	14	+ 3	4·00	101	+ 69	2·1	−1·3	18	1012
5. ENGLAND, S.E.	58	28	81·4	75·7	78·5	0·0	57	− 11	48	− 17	17	+ 6	3·38	85	+ 49	1·9	−1·9	16	1012
Western.																			
6. SCOTLAND, WEST ...	52	20	79·4	73·3	76·3	− 1·5	17	− 28	107	+ 34	12	− 1	3·34	84	+ 21	2·9	−0·5	25	1012
7. ENGLAND, N.W.	56	22	79·5	74·1	76·7	− 1·4	17	− 34	89	+ 22	13	+ 1	4·03	103	+ 60	2·2	−1·2	19	1011
8. ENGLAND, S.W.	59	21	81·3	75·5	78·3	− 0·4	47	− 20	58	+ 3	16	+ 4	4·49	114	+ 62	3·2	−0·7	27	1012
9. IRELAND, NORTH ...	53	22	80·6	73·8	77·1	− 1·4	31	− 27	92	+ 28	14	0	2·29	57	+ 8	2·6	−0·7	22	1011
10. IRELAND, SOUTH ...	56	25	81·5	74·9	78·1	− 1·1	44	− 33	76	+ 26	17	+ 5	2·28	58	+ 6	2·8	−1·0	24	1013
11. ENGLISH CHANNEL ...	55	32	82·9	78·1	80·5	+ 0·3	87	+ 1	10	− 10	17	+ 4	3·72	94	+ 49	3·8	−0·8	33	1013

THE YEAR 1919.—Aggregates, &c., for the Period of 12 Weeks, December 29th, 1918, to March 22nd, 1919.

0. SCOTLAND, NORTH ...	50	11	77·8	72·6	75·2	− 1·3	8	− 81	524	+ 111	51	−10	7·68	195	−159	2·3	+0·5	25	1007
Eastern.																			
1. SCOTLAND, EAST ...	54	5	77·3	71·8	74·6	− 1·6	3	−100	605	+ 127	48	− 1	7·07	181	+ 10	2·0	−0·4	22	1008
2. ENGLAND, N.E.	56	11	78·3	73·4	75·8	− 1·1	27	−108	457	+ 71	56	+10	8·29	212	+ 92	1·6	−0·9	17	1008
3. ENGLAND, EAST ...	58	10	78·8	73·5	76·2	− 0·7	73	− 84	452	+ 42	56	+10	7·63	195	+ 75	1·5	−1·1	16	1009
4. MIDLAND COUNTIES ...	58	9	78·4	73·0	75·7	− 1·2	49	−119	504	+ 81	51	+ 5	10·23	259	+121	1·6	−0·7	17	1009
5. ENGLAND, S.E.	58	16	79·6	74·5	77·1	− 0·5	140	− 45	350	+ 25	59	+14	10·48	265	+115	1·7	−0·9	17	1009
Western.																			
6. SCOTLAND, WEST ...	54	14	78·6	73·5	76·1	− 1·2	34	− 97	422	+ 90	48	− 7	10·23	259	− 29	1·9	−0·2	21	1008
7. ENGLAND, N.W.	56	16	78·7	73·9	76·3	− 1·2	38	−105	396	+ 79	52	+ 3	9·09	230	+ 39	1·9	−0·4	20	1008
8. ENGLAND, S.W.	59	15	79·8	74·9	77·4	− 0·8	129	− 82	312	+ 56	59	+ 9	14·34	365	+136	2·4	−0·2	25	1008
9. IRELAND, NORTH ...	53	22	79·8	74·4	77·1	− 0·9	88	− 94	336	+ 57	55	− 3	7·96	200	− 21	2·4	+0·2	25	1006
10. IRELAND, SOUTH ...	56	22	80·7	75·1	77·9	− 0·9	154	−105	283	+ 65	58	+ 5	9·73	248	+ 4	2·5	0·0	26	1007
11. ENGLISH CHANNEL ...	56	26	81·7	77·5	79·6	− 0·3	255	− 48	94	− 4	65	+10	15·40	390	+195	2·5	−0·6	25	1009
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: COL. H. G. LYONS, R.E., F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: March 28th, 1919.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 13.

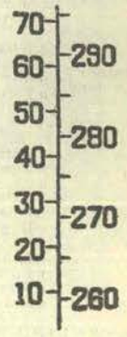
THE THIRTEENTH WEEK OF 1919.

SUNDAY, MARCH 23RD, TO SATURDAY, MARCH 29TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

For the first few days the conditions were anticyclonic over the British Isles, and the weather generally fair; but on Sunday there was heavy rain at Jersey, associated with the low pressure over France. During the second half of the week the whole of North-Western Europe came under the influence of a large and deep disturbance which advanced over our Islands from the westward. As the system approached our north-western coasts gales from the south-westward were experienced over the northern districts, but the wind quickly veered to north-west in the rear of the centre, and squally weather with frequent showers of hail or snow were everywhere prevalent. On the night of the 28th–29th a small depression passing eastwards up the Channal caused a notable fall of snow in the south of England. The snow lay to an average depth of 20 cm. in London on Saturday morning, but disappeared during the day under the influence of nearly eight hours of bright sunshine. The mean temperature was again below the normal in all districts, the deficit, about 4 a., being exceptionally uniform over the United Kingdom. The maximum readings were very low for the season, 283 a. being reached only at one or two isolated places, while on some days there were large areas over which no reading above 275 a. was recorded; at Buxton on the 23rd and 25th the thermometer failed to exceed 273 a. and at Balmoral on the 28th 259 a. was the highest point reached. Minima below the freezing point occurred in all parts of the United Kingdom, the lowest screen reading being 261 a. at Balmoral on the 25th, when the grass thermometer went down to 259 a. Rainfall considerably exceeded the normal in the Channel Islands, and there was a slight excess in England S.E. and Scotland E., but in all other Districts there was a deficit. There were a few individual falls of 20mm., chiefly on the 26th, the largest being 31mm. at Fort William and 33mm. at Beddgelert; the yield of water from snow in the London district on Saturday morning was only about 6mm., the deposit being unusually light and ethereal. Aurora was seen at Glasgow on the 23rd and 27th and at Aberdeen on the 28th. Solar halos were observed at Oxford on the 24th and at Tunbridge Wells on the 23rd, and the Zodiacal Light at Oxford on several dates.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.*		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	9	6·6	5	7·7	4	3·6	1	5·6	3	4·4	2	1·7	3	3·7	5	3·1
North	14	7·2	15	5·0	18	5·8	24	3·5	20	5·2	22	5·4	17	3·0	18	3·8
West	16	5·1	20	5·2	14	4·7	11	5·2	13	8·0	11	8·9	14	9·2	7	8·0
East	4	2·5	3	2·0	13	4·7	15	4·4	15	5·2	17	6·3	12	6·2	17	3·8
Calm	4	—	4	—	1	—	1	—	0	—	0	—	1	—	3	—

* For Scotland N. (Deerness) the week ends at midnight on Friday.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Very deficient	Very deficient	Deficient	Very deficient	Deficient	Deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient
	Rainfall ...	Heavy	Heavy	Light	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Very heavy
	Sunshine ...	Moderate	Abundant	Moderate	Moderate	Abundant	Moderate	Abundant	Abundant	Abundant	Moderate	Moderate	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SPRING. 4 weeks from March 2nd, 1919.	Warmth ...	0, 1, 3	0, 1, 3	0, 2, 2	0, 2, 2	0, 2, 2	1, 1, 2	0, 1, 3	0, 2, 2	0, 2, 2	0, 0, 4	0, 0, 4	0, 2, 2
	Rainfall ...	1, 1, 2	2, 1, 1	3, 0, 1	1, 3, 0	3, 1, 0	2, 2, 0	1, 3, 0	3, 1, 0	3, 1, 0	1, 3, 0	0, 4, 0	4, 0, 0
	Sunshine ...	3, 1, 0	2, 1, 1	0, 1, 3	0, 1, 3	1, 0, 3	0, 1, 3	1, 2, 1	1, 1, 2	1, 3, 0	0, 2, 2	0, 3, 1	0, 2, 2

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (m.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of 5/9° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(22528—19.) Wt. 199—789. 625. 4/19. P & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.							Rainfall.			STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft Mean.	Earth 4 ft Deviation from Average
	Ft.	°F.		°F		°F.	°F.	°F.	°F.		in.	mm	mm.	hr.	hr.	°/c.		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																						
a, Islands .. a Lerwick ..	54	43	25th	29	24th	38·3	30·9	34·5	- 4·8	7	0·98	25	+ 10									
a Houton Bay ..	520	40	25th	23	29th	35·6	28·4	31·9	—	5	0·95	24	+ 10	Houton Bay ..	4·2	0·0	33	•	•	•	•	•	•
a Stornoway ..	51	45	27th	25	29th	40·6	31·0	35·7	- 5·1	7	1·46	37	+ 17	Stornoway ..	4·5	0·0	36	•	•	•	•	•	•
a Castlebay, Barra Isd.	37	46	26th	27	29th	40·3	33·3	36·7	—	7	0·60	15	—	Castlebay ..	5·7	—	45	•	•	•	•	•	•
b, Mainland. a Wick ..	81	43	26th	25	29th	38·6	28·6	33·5	- 6·8	6	0·61	15	+ 2									
a Strathpeffer ..	125	44	25, 26	22	29th	40·3	26·9	33·4	- 7·4	5	1·48	38	+ 25									
p Glencarron ..	500	41	25, 26	21	24, 29	38·0	25·6	31·6	- 8·6	4	2·42	62	+ 34									
a Fort Augustus..	60	42	23, 24, 26	19	25, 27	38·9	24·1	31·3	- 9·6	22	1·24	32	+ 15									
p Fort William ..	171	44	25th	22	25, 29	40·9	26·9	33·7	- 8·2	5	1·36	35	+ 5									
1. SCOTLAND, E.																						
a Nairn	82	46	25th	23	25th	40·0	27·7	33·7	- 6·9	5	0·50	13	+ 3	Nairn	6·1	—	48	•	•	•	•	•	•
p Gordon Castle ..	101	44	25th	23	24th	40·4	27·4	33·7	- 7·4	6	0·73	19	+ 7	Gordon Castle..	4·2	—	33	•	•	•	•	•	•
a Aberdeen ..	46	44	24th	27	25, 29	39·6	29·1	34·2	- 6·7	6	0·73	19	+ 6	Aberdeen ..	5·9	+ 1·6	47	6	16	•	•	38·7	- 2·0
a Balmoral ..	930	37	24, 25	11	25th	33·7	20·4	26·9	-10·3	5	1·57	40	+ 24	Balmoral ..	•	•	•	7	7	•	•	•	•
p Crieff	432	42	23, 25, 27	21	23, 29	39·3	24·6	31·7	- 9·6	2	0·42	11	- 5	Crathes	5·2	+ 1·1	41	6	19	34·7	- 5·4	36·5	- 3·3
a Dundee	244	43	26th	23	23, 25, 29	40 7	26·0	33·1	- 7·8	3	0·25	6	- 5	Dundee	5·2	—	41	6	15	35·0	•	•	•
a Leith	30	44	27th	25	29th	40·1	27·4	33·6	- 8·7	1	0·20	5	- 4	Leith	—	—	—	5	21	•	•	•	•
p Edinburgh ..	441	42	27th	23	29th	38·6	27·6	32·9	- 7·9	2	0·27	7	- 2	Edinburgh ..	3·4	- 0·5	27	6	18	•	•	•	•
a West Linton ..	769	41	27th	14	23rd	36·7	21·6	28·9	- 9·2	1	0·35	9	—	West Linton ..	3·3	—	26	6	11	•	•	•	•
p Marchmont ..	498	44	27, 28	21	26, 28	40·3	25·4	32·6	- 7·5	4	0·39	10	- 4	Marchmont .	4·8	+ 0 9	38	•	•	•	•	•	•
6. a, SCOTLAND, W																						
a Ford (Argyll)	149	47	27th	22	23, 24	41·9	25·7	33·6	—	5	0·96	25	—	Ford (Argyll) ..	•	•	•	6	12	36 0	•	38·8	•
p Glasgow Observatory	180	42	27th	25	23rd	39·4	28·3	33 7	- 8·1	1	0·47	12	- 3	Glasgow.. ..	4·6	+ 1·1	37	6	17	•	•	•	•
p Rothesay	200	45	27th	26	23, 29	41·0	29·3	35·0	- 7·3	5	0 61	16	- 5	Rothesay ..	6·7	—	53	5	19	37 3	•	40 5	- 2·2
a Kilmarnock ..	90	45	25th	21	23, 24	42·7	26·3	34·3	- 6·9	1	0·48	12	- 4	Kilmarnock ..	4·0	—	32	•	•	35·9	•	40·0	—
a Colmonell	170	46	24, 25	23	25th	43·3	28·3	35·6	- 6·1	2	0·43	11	- 8	Colmonell ..	•	•	•	6	18	•	•	•	•
p Cally, Gatehouse ..	120	48	27th	23	23, 29	44·0	26·9	35·2	- 6·3	2	0·61	15	- 7	Dumfries ..	5·9	—	47	6	14	36·5	- 5·3	39·3	- 3·0
p Dumfries	160	44	27th	24	23, 26, 29	41·0	27·4	34·0	- 8·0	2	0·42	11	- 5	Eskdalemuir ..	4·6	—	37	6	8	•	•	•	•
a Eskdalemuir	794	41	27th	12	26th	37·6	18·7	27·9	—	1	0·79	20	—										
b, I. OF MAN p Douglas	277	45	27th	29	29th	41·9	32·4	37·0	- 5·4	4	0·53	14	- 3	Douglas	7·2	+ 2·0	57	5	21	•	•	•	•
2. ENGLAND, N.E																						
a Alnwick Castle ..	210	45	27th	25	29th	40·3	28·6	34·3	- 6·9	5	0·22	6	- 6									
a Tynemouth	71	47	27th	24	29th	41·6	30·6	35·9	- 5·6	2	0 12	3	- 6	Cockle Park ..	6·1	+ 1·7	48	6	19	34·8	- 5·3	38·5	- 2·5
p Durham	336	46	27th	22	29th	41·6	27·9	34·8	- 6·5	4	0·12	3	- 7	Durham	5·6	+ 1·6	44	6	16	•	•	•	•
a North .. p Rounton ..	249	47	27th	22	29th	41·4	28·6	34·8	- 6·2	4	0·23	7	- 3	Rounton ..	•	•	•	7	10	37·8	•	•	•
a West Witton ..	605	43	23rd	22	29th	40·0	27·4	33·5	—	4	0·52	13	—	West Witton ..	•	•	•	7	18	35·0	•	37·0	•
p Scarborough ..	100	46	28th	27	29th	41·6	32·7	37 0	- 5·4	5	0 22	6	- 4	Scarborough† ..	5·2	+ 0·8	41	•	•	•	•	39 0	•
p York	56	47	27th	24	29th	41·6	30·4	35·8	- 7·0	2	0·18	5	- 5	York	4·7	+ 0·9	37	—	—	38·5	- 3·6	40 8	- 1·5
b, South .. a Spurn Head ..	26	43	27th	27	29th	39·6	31·6	35·5	- 6·7	1	0·13	3	- 4	Spurn Head ..	3·5	—	28	•	•	•	•	•	•
a Lincoln	58	45	27th	25	23rd	41·4	30·3	35·7	- 7·3	1	0 09	2	- 7	Lincoln	•	•	•	7	19	36·7	- 4·9	40·6	- 1·5
a Fulbeck	180	44	27th	24	29th	40·1	30·3	35·1	- 7·8	3	0·13	3	- 6	Fulbeck* ..	4·4	- 0·2	35	—	—	—	—	—	—
														Skegness ..	5·3	+ 0·4	42	•	•	•	•	•	•
3. ENGLAND, E.																						
p Cromer	196	50	27th	30	23, 27, 29	42·9	31·0	36·8	- 5·9	3	0·19	5	- 2	Cromer	5·5	+ 0·6	44	•	•	•	•	•	•
a Little Massingham ..	280	45	27th	24	23rd	40·1	27·9	33·8	- 9·0	1	0·34	9	0	Lit. Massingham	4·8	+ 0·3	38	•	•	•	•	•	•
a Yarmouth	13	47	27th	27	23, 24	40·6	30·3	35·3	- 7·0	3	0·10	3	- 5	Yarmouth ..	5·9	—	47	4	25	40·0	- 3·9	43·7	- 1·1
a Norwich	93	47	27th	24	24th	41·4	29·7	35·4	- 7 8	2	0·36	9	0	Norwich ..	4 6	—	37	6	20	37·3	•	•	•
a Geldeston	37	47	27th	21	23rd	42·3	28·1	35·0	- 8·0	3	0·35	9	+ 1	Geldeston ..	4·7	- 0·1	37	•	•	•	•	•	•
p Cambridge	41	44	28th	26	23, 24	41·7	28·4	34·9	- 8·6	1	0·02	1	- 6	Cambridge ..	5·4	+ 0·7	43	7	22	39·7	- 4·1	42·6	- 1·6
a Clacton-on-Sea ..	54	47	27th	30	23, 29	41·9	31·9	36·8	- 5·9	3	0·14	4	- 3	Clacton	5·1	0·0	40	5	24	39·2	- 4·9	43·3	- 1·9
a Rothamsted	424	46	27th	27	23, 29	41·0	29·4	35·0	- 7·7	3	0·36	9	0	Rothamsted ..	6·6	+ 2·1	52	7	19	37·0	•	•	•
p Tottenham	51	48	27th	28	23rd	42·7	32·3	37·4	—	3	0·58	15	—	Tottenham ..	5·2	—	41	5	24	•	•	42·6	- 1·8
4. MIDLAND COUNTIES.																						
a North .. a Harrogate	479	45	27th	22	29th	40·4	27·4	33·7	- 7·6	2	0·36	9	- 2	Harrogate ..	6·1	+ 1·6	48	6	20	36·8	- 3·9	39·1	- 2·3
p Sheffield	429	43	27th	23	23rd	39·4	29·3	34·2	—	3	0·54	14	—	Sheffield.. ..	4·9	+ 0·9	39	7	19	35·3	- 5·8	39·3	- 2·2
p Buxton	987	38	26, 27	17	23rd	35·6	24 9	30·1	—	3	0·99	25	+ 6	Buxton	4·8	—	38	7	16	34·2	- 6·3	38·1	- 3·3
b, East .. a Bawtry	65	45	27th	23	23rd	41·7	28·9	35·1	- 8·0	1	0·10	3	- 5	Worksop ..	4·7	+ 0·8	37	7	14	38·0	—	40·5	•
a Nottingham	82	46	27th	25	23, 24	41·1	29·9	35·3	- 7·6	2	0·35	9	0	Nottingham ..	5 8	+ 1·6	46	7	19	35·8	- 5·9	38·0	- 3·3
p Birmingham, Edgbsn.	535	45	27th	28	23, 24, 26	39·6	30·1	34·7	- 8·0	3	0·22	6	- 4	Birmingham ..	4·6	+ 1·3	37	5	23	35·9	- 5 8	41·6	- 1·9
a Raunds	203	47	27th	24	23rd	42·6	28·7	35·4	- 7·6	2	0·22	6	- 2	Raunds	6·1	—	48	7	18	40·1	•	42·1	•
p Oxford	208	48	27th	26	23rd	42·7	30·4	36·4	- 7·3	3	0·31	8	- 1	Oxford	6·6	+ 2·2	53	5	18	•	•	•	•
														Malvern	5·6	—	45	6	22	37·0	—	40·2	—
a Cheadle (N. Staffs.) ..	646	41	27th	23	23rd	39·6	27·9	33·6	- 8·1	3	0·44	11	- 1	Cheadle	•	•	•	7	22	•	•	•	•
c, West .. p Tenbury	313	46	27th	24	23rd	41·4	29·4	35·2	- 7·9	3	0·19	5	- 3	Tenbury	•	•	•	6	21	37·7	•	•	•
p Ross-on-Wye	201	47	27th	26	23rd	42·4	30·0	36·0	- 7·9	3	0·28	7	- 3	Ross-on-Wye ..	6·0	—	48	5	18	—	—	•	•
a Clifton	228	46	27th	28	23rd	41·7	31·0	36·2	- 8·2	4	0·46	12	- 3	Clifton	5·8	—	47	6	25	•	•	•	•
														Worthing ..	5·4	0·0	44	0	31	40·3	- 4·3	44·1	- 1·1
5. ENGLAND, S.E.																						
a Marlborough	424	48	26th	25	23rd	43·1	29·3	36·0	- 6·3	4	0·47	12	+ 1	Marlborough ..	5·2	+ 1·1	42	7	17	40·0	•	44·5	—
p Salisbury (Wilton) ..	180	—	—	—	—	—	—	—	—	—	—	—	—	Salisbury ..	•	•	•	—	—	—	—	—	—
a Wisley, Surrey ..	150	48	27th	28	23rd	42·6	31·6	36·9	- 6·6	2	0·41	10	+ 2	Wisley	5·1	+ 0·5	41	4	16	39·0	- 4·1	42·2	- 1·7
a Tunbridge Wells ..	354	48	27th	27	23rd	43·1	31·1	36·9	- 6·4	3	0·41	10	0	Tunbridge Wells	4·1	- 0·8	33	3	17	40·3	- 1·8	42·8	—
a Margate	51	48	27th	30	29th	42·1	34·3	38·1	- 5·9	3	0·33	8	+ 1	Margate	4·2	- 0·7	34	2	24	40·1	- 3·7	43·4	- 0 8
a Dungeness	21	49	27, 28	30	27th	44·1	32·6	38·2	- 5·0	4	0·44	11	+ 4	Folkestone ..	4·6	—	37	•	•	•	•	43·4	—
p St. Leonards	178	48	27th	29	29th	42·9	33 0	37·8	- 6·1	4	0·52	13	+ 4	St. Leonards ..	5 7	+ 0·4	46	4	23	40·5	•	43·8	—
p Southampton	64	49	27th	29	23rd	43·9	31·4	37·5	- 7·7	2	0·61	15	+ 5	Southampton ..	6·4	+ 1·4	52	4	22	•	•	•	•
a Ventnor	59	49	27th	31	29th	45 0	34·0	39·3	- 6·0	4	0·72	18	+ 9	Ventnor	5·4	0·0	44	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	48	27th	27	23rd	42·6	31·7	37·0	- 7·0	3	0·40	10	+ 3	Richmond ..	5·1	+ 0·8	41	3	19	38·7	- 4·5	42·8	- 1·6
a Westminster	27	49	27th	30	29th	44·0	32·4	38·0	- 6·8	3	0·46	12	+ 5	Westminster ..	4·8	+ 1·5	39	3	27	•	•	•	•
ag Greenwich	149	49	27th	25	23rd	44·1	31·1	37·4	- 7·2	3	0·40	11	+ 2	Greenwich ..	5·2	+ 1·4	42	5	17	•	•	•	•
a Hampstead	450	47	27th	27	23, 29	41·1	30·1	35·4	—	3	0·63	16	—	Hampstead ..	6·1	—	49	7	22	•	•	•	•
ag Camden Square ..	110	50	27th	26	23rd	45·0	31 1	37·8	- 7 0	3	0·40	10	+ 2	Camden Square	5·3	+ 1·6	43	4	26	•	•	•	•
7. a, ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	42	27th	22	26, 29	39·3	26·6	32·8	- 8·8	1	0·53	14	- 3	Aspatria.. ..	5·7	+ 1·2	45	7	16	36·4	- 6·3	40·0	- 3·6
p Newton Rigg	559	45	27th	19	26th	40·1	27·3	33·5	- 7·2	1	0·54	14	- 2	Newton Rigg ..	5·9	+ 1·5	47	6	16	36·4	- 5·0	38·9	- 2·2
p Stonyhurst	375	44	26th	25	23rd	40·6	28·7	34·5	- 7·1	1	0·81	21	0	Stonyhurst ..	6·1	+ 1·8	48	6	20	•	•	•	•
p Blackpool	66	45	27th	26	23, 26	41·6	29·7	35·5	- 6·9	4	0·30	8	- 6	Blackpool ..	6·6	+ 1·5	52	6	16	38·0	—	41·9	—
a Southport	37	45	27th	26	23rd	41·6	29·9	35·6	- 7·1	2	0·60	15	+ 2	Southport ..	5·7	+ 0 8	45	5	17	36·5	- 6·1	39·7	- 3·3
														Hoylake ..	3·8	- 0·8	30	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	46	26th	29	26th	40·6	31·0	35·7	- 7·5	1	0·20	5	- 7	Liverpool ..	4·0	—	32	6	23	•	•	•	•
a Hawarden Bridge ..	22	46	26th	29	26th	41·4	32·0	36·6	- 7·3	3	0·26	7	- 2	Manchester(City)	4·7	+ 1·3	37	5	25	35·5	- 5·8	40·2	- 3·0
p Manchester (Whit. Pk.)	125	44	27th	28	23rd	40·7	32·1	36·3	- 7·3	3	0·50	13	- 1	Whitworth Park	4·2	+ 1·0	33	•	•	•	•	•	•
b NORTH WALES.																						
p Llandudno	16	46	27th	25	26th	42·0	31·6	36·7	- 7·3	3	0·32	8	- 5	Llandudno ..	5·1	+ 0·2	40	•	•	•	•	•	•
a Holyhead	15	45	26, 27	28	26th	42·4	32·0	37·1	- 7 5	4	0·28	7	- 8	Holyhead ..	5·3	—	42	5	17	•	•	•	•
a Beddgelert	309	45	26th	23	26th	40·3	28·6	34·3	—	4	1·59	40	—	Aberdovey ..	—	—	—	—	—	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

• Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean	Earth 1 ft Deviation from average.	Earth 4 ft Mean	Earth 4 ft Deviation from average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
8. *a.* SOUTH WALES.																						
a Aberystwyth	59	44	27th	27	26th	41·4	30·4	35·7	—	4	0·39	10	—	Aberystwyth ..	6·1	+ 1·4	48	*	*	*	*	*	*
a Rhayader	767	43	26th	21	23rd	38·1	27·0	32·4	—	4	1·09	28	—	Rhayader ..	4·9	—	40	5	15	*	*	*	*
a St. Ann's Head ..	149	46	26, 27	26	26th	43·1	30·6	36·7	- 7·3	4	0·34	9	- 3	St. Ann's Head	6·6	+ 1·4	53	*	*	*	*	*	*
p Cardiff	202	47	27th	26	26th	42·0	30·3	36·0	- 7·5	3	0·57	14	- 2	Cardiff	6·0	—	48	7	18	38·4	-5·0	42·5	-1·5
b. ENGLAND, S.W.																						
a Bath	66	49	27th	27	23rd	44·3	31·1	37·5	- 6·4	3	0·39	10	- 2	Bath	*	*	*	*	*	40·8	-3·3	43·3	-1·3
a Shaftesbury	722	44	27th	26	26th	40·7	28·7	34·5	- 8·0	2	0·34	9	- 3	Shaftesbury ..	*	*	*	*	*	38·1	*	41·8	*
a Arlington	613	44	26, 27	24	26th	41·3	30·3	35·6	- 7·1	3	0·80	20	+ 1										
a Newquay	190	48	28th	30	25th	44·7	33·9	39·1	- 6·2	4	0·77	20	+ 8	Newquay ..	5·2	0·0	42	3	24	43·6	*	46·6	*
a Cullompton	202	48	27th	28	26th	44·3	31·7	37·8	- 6·6	4	0·60	15	+ 1	Cullompton ..	6·4	+ 1·7	52	6	21	41·6	*	*	*
a Portland Bill	19	48	27th	31	29th	43·7	33·4	38·4	- 6·1	4	0·47	12	+ 2	Weymouth ..	6·8	—	55	*	*	*	*	*	*
p Plymouth	116	49	29th	27	26th	45·6	34·4	39·8	- 5·6	4	0·53	13	- 1	Plymouth ..	5·4	+ 0·3	44	2	22	41·7	-4·1	45·4	*
a Falmouth	167	49	27, 28	30	26th	46·0	33·6	39·8	- 5·8	5	0·87	22	+ 5	Falmouth ..	5·1	- 0·3	41	2	26	45·5	*	46·9	*
9. IRELAND, N.																						
a West .. *a* Malin Head	208	45	25, 26	30	25, 29	41·9	31·9	36·8	- 5·9	4	0·52	13	- 2	Malin Head ..	6·5	—	52	*	*	*	*	*	*
a Blacksod Point ..	327	47	26th	29	23rd	42·0	31·0	36·3	- 7·8	5	0·52	13	- 11	Markree Castle	3·9	- 0·3	31	6	17	40·4	-4·0	43·0	-1·5
p Markree Castle ..	122	48	27th	22	25th	44·1	27·9	35·8	- 7·1	5	0·94	24	+ 4										
b. East .. *p* Armagh	196	45	26, 27	23	23rd	43·0	27·6	35·1	- 7·5	6	0·48	12	- 3	Armagh	5·2	+ 1·1	41	6	12	38·6	-4·6	41·9	-1·9
a Donaghadee	101	46	26th	26	26th	42·3	30·9	36·4	- 6·6	4	0·39	10	- 5										
10. IRELAND, S.																						
p Dublin, City	47	47	26, 27	28	29th	43·0	32·4	37·5	- 7·4	5	0·33	8	- 5	Trinity Coll. ..	*	*	*	6	20	41·0	-3·4	43·7	-1·3
a Birr Castle	175	50	26th	26	25, 26	42·7	28·0	35·1	- 8·1	5	0·41	10	- 5	Phœnix Park ..	4·5	- 0·3	36	6	18	*	*	*	*
a Kilkenny	212	48	26th	24	26th	43·1	29·4	36·1	- 7·6	4	0·38	10	- 5	Dublin City ..	*	*	*	3	24	*	*	*	*
a Waterford	120	50	27, 28	29	24, 26	46·4	31·6	38·8	- 6·0	3	0·38	10	- 7	Birr Castle ..	4·5	+ 0·1	36	7	17	*	*	*	*
p Seskin, Carrick-on-Suir	541	47	26th	27	26th	43·0	29·4	36·0	—	3	0·45	12	—	Seskin	4·6	—	37	6	22	*	*	*	*
a Cahir	199	48	26th	24	26th	42·6	30·0	36·1	- 7·8	3	0·49	12											
a Foynes	50	49	26th	30	25th	43·4	32·6	37·8	- 7·1	4	0·68	17	- 1										
a Cahirciveen (Val. Obs.)	30	50	28th	29	26th	44·9	33·7	39·1	- 6·7	3	0·79	20	- 7	Cahirciveen ..	4·5	- 0·3	36	2	26	*	*	*	*
a Killarney	174	49	26, 28	29	26th	46·1	32·4	39·1	- 6·0	4	0·86	22	- 5	Ballinacurra ..	3·7	- 1·5	30	*	*	*	*	*	*
a Roche's Point	32	49	26th	31	24, 26, 27	45·0	32·3	38·5	- 6·7	2	0·26	7	- 12										
11. ENGLISH CHANNEL.																						
a Scilly, St. Mary's ..	131	49	27, 28	35	25, 26	46·0	37·7	41·7	- 5·3	5	0·61	16	+ 4	Scilly	3·4	- 2·1	27	*	*	*	*	*	*
a Jersey, St. Aubins ..	26	49	27, 29	32	27th	46·0	37·9	41·8	- 4·9	6	1·69	43	+ 31	St. Heliers ..	2·8	- 3·1	23	*	*	*	*	*	*
a Guernsey (Villa Carey)	180	49	27th	35	27th	45·0	38·1	41·5	- 5·5	6	1·35	34	+ 21	Guernsey† ..	2·9	- 3·0	23	1	30	42·3	-4·4	45·5	-1·3

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, March 22nd, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time. Day.	Hr.	Highest Gust. Speed.	Date d.	h.	m.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°		day.	hr.	m./s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	27, 28	5	26 to 28	45	52	42	24	0	315	18	28	1	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	55	82	3	28	337	10	27	13	24	27	15	5
Aberdeen	153	105	52	—	—	27 to 29	52	37	39	40	0	315	15	27	17	26	27	16	45
Edinburgh	485	39	31	26, 27	4	26 to 28	29	57	52	26	0	203	21	26	23	34	26	22	35
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	27, 28	7	26 to 28	24	37	58	42	0	290	18	27	13	27	27	4	5
Paisley	188	81	52	—	—	26, 27	15	50	52	51	0	315	15	27	9	24	27	8	55
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	27 to 29	20	31	58	59	0	326	14	27	24	29	28	0	10
South Shields	72	61	12	—	—	27, 28	28	35	95	10	0	281	17	27	10	26	27	6	5
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	24, 25	38	67	56	7	0	34	15	24	13	—	—	—	—
Gorleston	52	42	‡	—	—	24, 25, 27, 28	33	82	45	8	0	34	13	25	13	17	25	7	35
Shoeburyness	103	90	‡	—	—	24, 25, 27, 28	51	83	33	1	0	203	16	27	5	27	27	8	5
4. MIDLAND COUNTIES																			
Benson	270	84	‡	—	—	27	4	79	73	12	0	294	11	27	14	23	27	7	15
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	27	1	111	51	5	0	—	11	27	6	22	27	9	20
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	23 to 25, 27 to 29	55	87	25	1	0	250	14	27	7	22	27	7	35
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	30	102	36	0	281	8	27	15	19	27	17	50
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	27	11	33	52	72	0	236	13	27	8	22	27	2	30
Fleetwood (Cup Anr.) ..	109	44	—	27, 28	24	26 to 29	37	29	71	7	0	293	23	27	10	—	—	—	—
Southport	80	62	48	27, 28	30	26 to 29	32	40	53	4	0	293	22	27	17	29	27	16	35
Holyhead	60	40	‡	27, 28	16	26 to 29	24	87	32	9	0	304	19	27	16	26	27	9	25
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	23	8	23 to 25, 27 to 29	37	85	25	3	10	67	20	23	17	25	23	17	15
Plymouth	185	88	2	—	—	29	1	79	82	6	0	—	12	29	1	17	29	0	50
Lyme Regis	556	61	‡	—	—	24 to 27, 29	21	101	36	10	0	—	13	27	15	25	27	22	50
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	26, 27	2	26 to 28	27	95	34	10	0	236	18	26	24	—	—	—	—
Quilty	100	40	‡	—	—	26, 27	23	34	81	7	23	—	16	27	6	25	27	8	35
Cahirciveen (Val. Obs.)	98	41	‡	—	—	27, 28	14	69	80	5	0	325	13	27	7	23	27	8	30
Weaver Pt.	160	30	‡	—	—	27	14	123	31	0	0	—	15	27	12	26	27	12	10
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	23, 26 to 29	39	96	33	0	0	281	17	29	1	9	27	21	5

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]

* Above tops of trees.

‡ Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory.

** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

THIRTEENTH WEEK of 1919—March 23rd, to March 29th 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Temperature of the Air. At any "D.-V." Station. Lowest	Temperature of the Air. Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	45	19	77·1	70·6	73·8	− 3·9	0	− 18	60	+ 34	5	0	1·36	35	+ 14	4·4	0·0	35	1003
Eastern.																			
1. SCOTLAND, EAST ..	46	11	76·8	69·4	72·9	− 4·8	0	− 22	71	+ 42	4	0	0·61	16	+ 3	5·1	+1·1	40	1003
2. ENGLAND, N.E. ...	47	22	78·0	71·9	74·9	− 3·7	0	− 24	46	+ 24	3	− 1	0·17	4	− 6	5·2	+0·8	41	1003
3. ENGLAND, EAST ...	50	21	78·3	71·8	75·0	− 4·1	0	− 30	45	+ 22	2	− 1	0·27	7	− 1	5·4	+0·7	43	1004
4. MIDLAND COUNTIES ..	48	22	78·2	71·6	74·8	− 4·2	0	− 32	48	+ 23	3	0	0·28	7	− 3	5·6	+1·4	44	1005
5. ENGLAND, S.E.	49	25	79·3	73·1	76·1	− 3·6	4	− 28	34	+ 17	3	0	0·48	12	+ 3	5·1	+0·3	41	1004
Western.																			
6. SCOTLAND, WEST ...	48	21	78·5	70·9	74·6	− 3·9	0	− 23	50	+ 29	3	− 1	0·56	14	− 6	5·9	+1·6	47	1005
7. ENGLAND, N.W.	46	19	78·0	71·9	74·9	− 4·0	0	− 24	46	+ 27	2	− 2	0·43	11	− 4	5·5	+1·0	43	1006
8. ENGLAND, S.W.	49	21	79·1	72·5	75·7	− 4·0	3	− 28	37	+ 22	4	0	0·60	15	0	5·7	+0·8	46	1007
9. IRELAND, NORTH ...	50	22	78·9	71·7	75·2	− 4·0	2	− 24	42	+ 24	5	0	0·54	14	− 4	4·6	+0·5	36	1007
10. IRELAND, SOUTH ...	50	24	79·7	72·7	76·1	− 4·0	6	− 28	38	+ 24	4	0	0·51	13	− 6	4·3	−0·4	34	1009
11. ENGLISH CHANNEL ...	49	32	80·6	76·3	78·4	− 2·9	10	− 27	16	+ 12	6	+ 2	1·22	31	+ 19	3·0	−2·8	24	1006

THE SEASON (Spring).—Aggregates, &c., for the Period of 4 Weeks, March 2nd to March 29th, 1919.

0. SCOTLAND, NORTH ...	50	18	78·2	72·2	75·1	− 2·0	4	− 44	176	+ 57	20	0	3·05	77	− 23	4·3	+1·1	37	1009
Eastern.																			
1. SCOTLAND, EAST ...	54	11	77·9	71·3	74·5	− 2·7	3	− 59	208	+ 75	15	− 2	2·01	52	− 5	3·7	+0·1	32	1009
2. ENGLAND, N.E.	56	19	79·2	73·4	76·2	− 1·8	17	− 60	138	+ 35	17	+ 1	2·60	66	+ 25	2·8	−1·2	23	1009
3. ENGLAND, EAST ...	58	21	80·1	74·1	77·0	− 1·3	38	− 58	108	+ 2	18	+ 4	2·22	57	+ 18	2·7	−1·3	23	1010
4. MIDLAND COUNTIES ...	58	22	79·7	73·4	76·5	− 1·7	26	− 73	141	+ 29	17	+ 3	4·28	108	+ 66	2·9	−0·7	25	1010
5. ENGLAND, S.E.	58	25	80·9	75·1	77·9	− 0·9	61	− 39	82	0	20	+ 6	3·86	97	+ 52	2·7	−1·4	23	1010
Western.																			
6. SCOTLAND, WEST ...	52	20	79·2	72·7	75·9	− 2·1	17	− 51	157	+ 63	15	− 2	3·90	98	+ 15	3·6	−0·1	31	1011
7. ENGLAND, N.W.	56	19	79·1	73·6	76·3	− 2·0	17	− 58	135	+ 49	15	− 1	4·46	114	+ 56	3·1	−0·6	26	1010
8. ENGLAND, S.W.	59	21	80·8	74·8	77·7	− 1·3	50	− 48	95	+ 25	20	+ 4	5·09	129	+ 62	3·8	−0·3	32	1011
9. IRELAND, NORTH ...	53	22	80·2	73·3	76·7	− 2·0	33	− 51	134	+ 52	19	0	2·83	71	+ 4	3·1	−0·4	26	1010
10. IRELAND, SOUTH ...	56	24	81·0	74·4	77·6	− 1·8	50	− 61	114	+ 50	21	+ 5	2·79	71	0	3·2	−0·8	27	1012
11. ENGLISH CHANNEL ...	55	32	82·3	77·7	80·0	− 0·5	97	− 26	26	+ 2	23	+ 6	4·94	125	+ 68	3·6	−1·3	31	1012

THE YEAR 1919.—Aggregates, &c., for the Period of 13 Weeks, December 29th, 1918, to March 29th, 1919.

0. SCOTLAND, NORTH ...	50	11	77·7	72·4	75·1	− 1·5	8	− 99	584	+ 145	56	−10	9·04	230	−145	2·4	+0·5	26	1007
Eastern.																			
1. SCOTLAND, EAST ...	54	5	77·3	71·6	74·5	− 1·8	3	−122	676	+ 169	52	− 1	7·68	197	+ 13	2·2	−0·3	24	1007
2. ENGLAND, N.E.	56	11	78·2	73·2	75·7	− 1·3	27	−132	503	+ 95	59	+ 9	8·46	216	+ 86	1·9	−0·7	20	1008
3. ENGLAND, EAST ...	58	10	78·8	73·4	76·1	− 1·0	73	−114	497	+ 64	58	+ 9	7·90	202	+ 74	1·8	−1·0	19	1009
4. MIDLAND COUNTIES ...	58	9	78·4	72·9	75·7	− 1·4	49	−151	552	+ 104	54	+ 5	10·51	266	+118	1·9	−0·5	20	1008
5. ENGLAND, S.E.	58	16	79·5	74·4	77·0	− 0·8	144	− 73	384	+ 42	62	+14	10·96	277	+118	1·9	−0·9	20	1009
Western.																			
6. SCOTLAND, WEST ...	54	14	78·6	73·3	76·0	− 1·4	34	−120	472	+ 119	51	− 8	10·79	273	− 35	2·2	−0·1	23	1008
7. ENGLAND, N.W.	56	16	78·6	73·8	76·2	− 1·4	38	−129	442	+ 106	54	+ 1	9·52	241	+ 35	2·2	−0·2	22	1007
8. ENGLAND, S.W.	59	15	79·8	74·7	77·2	− 1·1	132	−110	349	+ 78	63	+ 9	14·94	380	+136	2·7	0·0	27	1008
9. IRELAND, NORTH ...	53	22	79·7	74·2	77·0	− 1·1	90	−118	378	+ 81	60	− 3	8·50	214	− 25	1·4	−0·9	26	1006
10. IRELAND, SOUTH ...	56	22	80·6	74·9	77·8	− 1·1	160	−133	321	+ 89	62	+ 5	10·24	261	− 2	2·7	0·0	27	1007
11. ENGLISH CHANNEL ...	56	26	81·6	77·4	79·5	− 0·5	265	− 75	110	+ 8	71	+12	16·62	421	+214	2·6	−0·7	26	1009
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: COL. H. G. LYONS, R.E., F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: April 4th, 1919.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THE FOURTEENTH WEEK OF 1919.

SUNDAY, MARCH 30TH, TO SATURDAY, APRIL 5TH, 1919.

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Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

For the first day or two a depression over our northern districts caused snow and hail showers in most parts of the United Kingdom; subsequently an area of high pressure stretching up from the Azores dominated the weather, conditions became drier, but temperature still remained low. At the end of the period the high pressure receded somewhat, and, with the advent of a south-westerly current of wind, there was a marked increase in temperature. For the week as a whole temperature was everywhere below normal, the largest deficit, about 3½ a., being shown over the southern districts. The maxima at the beginning of the week were as low as 277 a. in many parts of England, and in Scotland, at Balmoral and Fort Augustus, on one or two days, they did not exceed 275 a. At the end of the period, on the other hand, maxima of 286 a. were general in all parts of the United Kingdom, the change being most marked over the eastern half of Great Britain; the thermometer registered 288 a. at many stations on the 5th, the actual highest, however, being 289 a. at Southampton. At Fort Augustus the change between the 1st and the 5th was as much as 12 a. The lowest minima of the week occurred almost invariably in the early morning of Sunday, readings of 269 a. in the screen being general over England, while at West Linton (Pentland Hills) on the 30th the thermometer went down to 264 a.; the lowest readings of the grass thermometers were 263 a. at Worksop, Raunds and Tunbridge Wells, 261 a. at Dumfries, and 260 a. at Eskdalemuir and Rounton. The temperature of the ground both at a depth of 1 ft. and 4 ft. remained much below the normal. Rainfall was less than the normal except in Scotland N., where there was an excess of 8mm. This excess was accounted for by a fall of 37mm. at Glencarron on the 4th; there was also a fall of 23mm. at Beddgelert on the 1st. Aurora was seen at Houton Bay on the 30th, and solar halos at Aberdeen on the 2nd and 4th, at Oxford on the 30th, 31st and 1st, and at Tenbury on the 1st. The Zodiacal Light was seen at Oxford on the 30th.

Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.*		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	8	3·9	4	2·5	—	—	0	—	8	1·6	0	—	2	1·6	1	0·3
North	19	7·3	11	4·1	—	—	13	1·6	13	4·8	25	3·3	8	2·3	22	4·1
West	19	6·8	22	6·9	—	—	11	3·2	20	5·3	10	3·0	21	6·8	11	2·5
East	9	4·3	3	3·3	—	—	6	1·2	3	3·6	14	2·8	4	3·5	10	1·7
Calm	0	—	3	—	—	—	11	—	4	—	0	—	2	—	5	—

* For Scotland N. (Deerness) the week ends at midnight on Friday.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Very deficient	Deficient	Very deficient	Deficient	Deficient	Very deficient	Deficient	Deficient	Very deficient
	Rainfall ...	Heavy	Moderate	Light	Light	Light	Light	Light	Moderate	Light	Moderate	Light	Moderate
	Sunshine ...	Moderate	Scanty	Moderate	Abundant	Moderate	Abundant	Moderate	Moderate	Abundant	Moderate	Moderate	Abundant

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SPRING. 5 weeks from March 2nd, 1919.	Warmth ...	0, 1, 4	0, 1, 4	0, 2, 3	0, 2, 3	0, 2, 3	1, 1, 3	0, 1, 4	0, 2, 3	0, 2, 3	0, 0, 5	0, 0, 5	0, 2, 3
	Rainfall ...	2, 1, 2	2, 2, 1	3, 0, 2	1, 3, 1	3, 1, 1	2, 2, 1	1, 3, 1	3, 2, 0	3, 1, 1	1, 4, 0	0, 4, 1	4, 1, 0
	Sunshine ...	3, 2, 0	2, 1, 2	0, 2, 3	1, 1, 3	1, 1, 3	1, 1, 3	1, 3, 1	1, 2, 2	2, 3, 0	0, 3, 2	0, 4, 1	1, 2, 2

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(22643—19.) Wt. 199—789. 625. 4/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																						
a, Islands — a Lerwick	54	48	4th	31	30, 3, 4	43·6	33·4	38·3	- 2·1	6	0·75	19	+ 5									
a Houton Bay, Orkney	520	46	4th	30	30, 31, 3	41·0	32·0	36·3	—	7	1·51	38	+ 25	Houton Bay	3·4	- 1·4	26	•	•	•	•	•	•
a Stornoway	51	51	5th	27	30th	45·3	35·4	40·1	- 2·0	6	1·10	28	+ 9	Stornoway	3·6	- 1·4	27	•	•	•	•	•	•
a Castlebay, Barra I.	37	49	4, 5	29	30th	44·6	35·6	39·9	—	5	0·48	12	—	Castlebay	4·5	—	34	•	•	•	•	•	•
b, Mainland — a Wick	81	52	4th	30	30th	44·6	34·6	39·4	- 2·2	6	0·80	20	+ 8									
a Strathpeffer	125	54	5th	26	30th	45·6	33·7	39·4	- 2·9	5	0·48	12	0									
p Glencarron	500	48	5th	23	30th	41·1	30·1	35·3	- 6·6	6	3·22	82	+ 45									
a Fort Augustus	68	56	5th	23	30th	42·9	29·4	35·8	- 6·5	5	0·84	21	+ 5									
p Fort William	171	51	5th	26	30th	45·7	34·0	39·6	- 3·7	5	0·49	12	- 17									
1. SCOTLAND, E.																						
a Nairn	82	56	5th	27	30th	46·4	33·4	39·6	- 2·7	6	0·42	11	+ 3	Nairn	3·1	—	24	•	•	•	•	•	•
p Gordon Castle	101	54	5, 6	29	30th	45·6	34·4	39·7	- 3·0	5	0·62	16	+ 7	Gordon Castle	2·9	—	22	•	•	•	•	•	•
a Aberdeen	46	58	4, 5	29	30th	47·1	34·1	40·3	- 2·0	5	0·40	10	0	Aberdeen	3·6	- 1·8	27	3	25	•	•	33·6	—
a Balmoral	930	53	5th	22	2nd	41·1	31·1	35·9	- 3·0	5	0·35	9	- 3	Balmoral	•	•	•	5	17	•	•	•	•
p Crieff	432	55	5th	25	30th	46·1	32·9	39·2	- 3·7	2	0·08	2	- 10	Crathes	2·0	- 3·1	15	5	23	35·8	-5·6	36·6	-4·0
a Dundee	244	56	5th	23	2nd	46·1	31·9	38·7	- 3·8	3	0·13	3	- 6	Dundee	2·3	—	18	4	22	36·6	•	•	•
a Leith	30	55	5th	26	30th	46·6	33·3	39·6	- 4·3	1	0·01	0·3	- 7	Leith	—	—	—	4	23	•	•	•	•
p Edinburgh	441	52	4th	24	30th	44·1	34·3	39·0	- 3·4	2	0·03	1	- 6	Edinburgh	2·1	- 2·7	16	4	21	•	•	•	•
a West Linton	769	47	4th	16	30th	42·3	29·3	35·5	- 4·2	5	0·19	5	—	West Linton	1·2	—	6	4	14	•	•	•	•
p Marchmont	498	54	4th	23	30th	46·3	32·9	39·3	- 2·4	3	0·17	4	- 7	Marchmont	4·1	- 0·8	32	•	•	•	•	•	•
6. a. SCOTLAND, W.																						
a Ford (Argyll)	149	50	3rd	25	2nd	46·4	31·8	38·8	—	6	0·44	11	—	Ford (Argyll)	•	•	•	5	15	37·4	•	38·5	•
p Glasgow Observatory	180	49	3, 4, 5	27	30th	45·9	35·6	40·5	- 3·2	4	0·04	1	- 11	Glasgow	2·2	- 2·0	17	5	22	•	•	•	•
p Rothesay	200	49	2, 4, 5	26	30th	46·3	33·6	39·7	- 4·4	5	0·31	8	- 9	Rothesay	3·3	—	25	4	22	38·6	•	40·5	-2·7
a Kilmarnock	90	54	3rd	25	2nd	47·7	33·1	40·1	- 2·9	2	0·05	1	- 11	Kilmarnock	2·7	—	21	•	•	37·7	•	39·8	—
a Colmonell	170	52	3rd	26	2nd	48·1	33·7	40·6	- 2·8	2	0·07	2	- 12	Colmonell	•	•	•	4	22	•	•	•	•
p Cally, Gatehouse	120	53	4th	23	30th	48·1	31·4	39·4	- 3·8	6	0·21	5	- 12	Dumfries	3·0	—	23	5	11	38·2	-4·7	39·1	-4·0
p Dumfries	160	52	5th	24	30th	47·6	33·9	40·4	- 3·5	2	0·09	2	- 11	Eskdalemuir	3·0	—	23	4	8	•	•	•	•
a Eskdalemuir	794	49	4th	18	30th	44·3	26·9	35·2	—	5	0·13	3	—										
b, I. OF MAN p Douglas	277	52	4, 5	28	30th	47·3	35·7	41·2	- 2·8	1	0·25	6	- 8	Douglas	6·4	+ 0·2	49	4	25	•	•	•	•
2. ENGLAND, N.E.																						
a North — a Alnwick Castle	210	56	4th	26	30th	48·3	33·7	40·7	- 1·5	2	0·08	2	- 7									
a Tynemouth	71	55	4th	25	30th	48·1	32·6	40·0	- 2·5	1	0·04	1	- 6	Cockle Park	4·8	- 0·5	37	4	20	36·3	-5·0	38·2	-3·6
p Durham	336	57	4th	23	30th	49·3	33·1	40·8	- 1·5	3	0·06	1	- 7	Durham	4·9	- 0·1	38	6	13	•	•	•	•
p Rounton	249	56	4th	23	30th	48·7	31·9	39·9	- 2·3	3	0·05	1	- 7	Rounton	•	•	•	6	9	37·7	•	•	•
a West Witton	605	52	5th	24	30th	46·3	32·9	39·3	—	1	0·06	2	—	West Witton	•	•	•	6	21	36·3	•	36·8	•
p Scarborough	100	55	5th	32	1st	48·7	36·4	41·3	- 2·1	5	0·68	17	+ 9	Scarborough†	6·1	+ 0·6	47	•	•	•	•	39·4	•
p York	56	56	4th	25	30th	48·7	33·9	40·9	- 3·2	2	0·04	1	- 6	York	4·3	- 0·5	33	—	—	39·0	-4·3	40·6	-2·3
b, South — a Spurn Head	26	50	5th	226	31st	44·7	32·3	38·2	- 5·1	2	0·12	3	- 2	Spurn Head	3·6	—	28	•	•	•	•	•	•
a Lincoln	58	56	4th	25	30th	48·3	31·4	39·4	- 4·9	0	0·00	0	- 7	Lincoln	•	•	•	6	21	37·3	-5·7	40·4	-2·5
a Fulbeck	180	57	4th	24	2nd	48·6	30·1	38·9	- 5·4	3	0·09	2	- 5	Fulbeck*	3·9	- 1·9	30	•	•	38·9	-5·8	41·3	-2·7
														Skegness	5·5	- 0·6	42	•	•	•	•	•	•
3. ENGLAND, E.																						
p Cromer	196	56	5th	37	30th	47·3	32·4	39·5	- 4·2	1	0·05	1	- 5	Cromer	6·8	+ 1·0	52	•	•	•	•	•	•
a Little Massingham	280	55	4, 5	22	30th	48·0	29·1	38·1	- 5·9	3	0·04	1	- 7	Lit. Massingham	6·4	+ 1·0	49	•	•	•	•	•	•
a Yarmouth	13	57	5th	26	30, 31	47·1	30·1	38·2	- 5·1	1	0·08	2	- 5	Yarmouth	7·5	—	58	5	24	40·3	-4·8	43·0	-2·6
a Norwich	93	56	5th	26	30th	49·0	30·4	39·3	- 5·0	1	0·09	2	- 6	Norwich	5·6	—	43	6	21	38·0	•	•	•
a Geldeston	37	58	5th	25	30, 1	50·1	28·4	38·7	- 5·3	1	0·04	1	- 6	Geldeston	5·9	+ 0·2	45	•	•	•	•	•	•
p Cambridge	41	55	4th	23	1, 3	49·4	26·6	37·5	- 7·2	0	0·00	0	- 7	Cambridge	5·7	+ 0·1	44	6	20	40·4	-4·7	42·3	-2·7
a Clacton-on-Sea	54	54	5th	38	30th	46·1	30·7	38·0	- 5·9	1	0·01	0·3	- 6	Clacton	6·6	+ 0·5	51	6	21	40·4	-4·9	43·0	-2·9
a Rothamsted	424	53	5th	26	3rd	47·3	30·3	38·4	- 5·4	2	0·06	2	- 6	Rothamsted	5·0	- 0·3	39	6	19	37·8	•	•	•
p Tottenham	51	54	4, 5	29	30, 1–3	48·4	32·4	40·0	—	1	0·01	0	—	Tottenham	4·2	—	33	5	25	•	•	42·2	-2·8
4. MIDLAND COUNTIES.																						
a North — a Harrogate	479	53	4th	22	30th	47·1	31·3	38·8	- 3·8	1	0·02	0·4	- 10	Harrogate	5·5	+ 0·2	42	5	18	37·6	-4·1	39·2	-2·8
p Sheffield	429	54	4th	26	30th	47·1	34·6	40·6	—	3	0·07	2	—	Sheffield	4·8	+ 0·1	37	4	22	37·1	-5·1	39·1	-2·9
p Buxton	987	50	4th	23	30th	42·1	30·7	36·1	—	4	0·28	7	- 10	Buxton	3·8	—	29	5	18	35·3	-6·3	37·7	-4·1
b, East — a Bawtry	65	55	4th	26	30th	48·0	32·3	39·3	- 4·6	1	0·01	0	- 8	Worksop	3·5	- 1·1	27	6	14	38·6	—	40·3	•
a Nottingham	82	56	4th	26	30th	48·1	30·1	38·7	- 5·6	2	0·05	1	- 7	Nottingham	3·2	- 1·8	25	6	22	36·9	-6·1	37·9	-4·1
p Birmingham, Edgbsn.	535	53	4th	27	30th	46·7	33·1	39·6	- 4·5	3	0·11	3	- 6	Birmingham	3·1	- 0·9	24	5	22	37·3	-5·2	41·1	-2·7
a Raunds	203	57	4th	24	30th	49·1	29·1	38·6	- 5·9	1	0·06	1	- 7	Raunds	5·1	—	39	6	15	39·6	•	42·0	•
p Oxford	208	54	5th	27	30th	49·0	31·6	39·9	- 5·3	3	0·09	2	- 7	Oxford	5·3	+ 0·1	41	7	20	•	•	•	•
														Malvern	4·9	—	38	5	23	38·3	—	40·1	•
c, West — a Cheadle (N. Staffs.)	646	52	4th	27	31st	46·1	31·6	38·5	- 4·5	2	0·14	4	- 7	Cheadle	•	•	•	5	21	•	•	•	—
p Tenbury	313	56	4th	25	2nd	47·7	29·1	38·0	- 6·4	2	0·13	3	- 5	Tenbury	•	•	•	6	21	38·9	•	•	•
p Ross-on-Wye	201	57	4th	26	3rd	49·9	29·9	39·4	- 5·9	2	0·02	0·4	- 9	Ross-on-Wye	5·7	—	44	6	20	—	—	•	•
a Clifton	228	54	4th	29	30th	47·3	32·6	39·6	- 6·3	1	0·03	1	- 13	Clifton	6·4	—	50	5	26	•	•	•	•
5. ENGLAND, S.E.																						
a Marlborough	424	53	4, 5	25	1, 3	47·7	28·4	37·6	- 6·3	1	0·02	0·4	- 10	Worthing	8·6	+ 2·5	67	7	23	40·1	-5·7	43·8	-2·0
p Salisbury (Wilton)	180	57	5th	25	30th	48·7	29·7	38·7	- 6·3	1	0·01	0	- 11	Marlborough	5·0	+ 0·3	39	6	16	41·7	•	44·8	—
a Wisley, Surrey	150	56	5th	26	30th	48·1	29·9	38·6	- 6·7	3	0·06	2	- 5	Salisbury	•	•	•	6	20	40·4	•	•	•
a Tunbridge Wells	354	59	5th	24	30th	49·1	29·0	38·6	- 6·5	1	0·02	1	- 8	Wisley	4·6	- 0·6	36	6	15	38·5	-5·8	41·7	-2·8
a Margate	51	54	5th	30	1st	46·0	33·7	39·6	- 6·0	2	0·22	6	- 1	Tunbridge Wells	5·6	0·0	43	7	14	40·3	-2·9	42·4	—
														Margate	7·8	+ 2·2	60	6	25	40·0	-4·8	42·8	-2·0
a Dungeness	21	50	5th	25	30th	46·3	28·7	37·1	- 7·7	0	0·00	0	- 7	Folkestone	8·2	—	64	•	•	•	•	42·9	—
p St. Leonards	178	53	5th	29	30th	45·9	32·9	39·1	- 6·5	2	0·08	2	- 6	St. Leonards	8·6	+ 2·6	67	7	23	40·3	•	43·2	—
p Southampton	64	61	5th	27	30, 1	50·3	30·6	40·0	- 7·0	2	0·08	2	- 7	Southampton	5·8	+ 0·1	45	6	16	•	•	•	•
a Ventnor	59	58	5th	31	30th	50·6	34·7	42·3	- 4·5	0	0·00	0	- 8	Ventnor	8·2	+ 2·1	64	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	54	5th	28	30th	47·5	30·9	38·8	- 7·0	2	0·03	1	- 6	Richmond	4·1	- 1·0	32	6	21	38·7	-5·7	42·4	-2·5
a Westminster	27	55	5th	27	30th	49·1	29·5	38·8	- 7·8	3	0·22	6	- 1	Westminster	3·3	- 0·7	26	7	21	•	•	•	•
ag Greenwich	149	55	5th	27	30, 3	49·1	30·4	39·3	- 5·9	2	0·04	1	- 8	Greenwich	4·5	+ 1·3	35	6	18	•	•	•	•
a Hampstead	450	54	5th	26	30th	47·4	31·6	39·1	—	3	0·11	3	—	Hampstead	4·8	—	37	6	20	•	•	•	•
ag Camden Square	110	57	5th	26	30th	50·3	30·4	39·9	- 6·8	3	0·12	3	- 5	Camden Square	3·8	- 0·6	29	5	24	•	•	•	•
7. a. ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	49	4, 5	24	30th	44·4	32·9	38·4	- 4·7	4	0·13	3	- 9	Aspatria	3·5	- 1·7	27	4	19	37·8	-6·1	39·6	-4·1
p Newton Rigg	559	56	4th	24	30th	46·7	32·0	39·0	- 3·2	4	0·22	6	- 5	Newton Rigg	3·9	- 1·2	30	5	20	37·9	-4·8	38·6	-3·1
p Stonyhurst	375	51	5th	28	30, 2	45·0	32·9	38·7	- 4·4	3	0·29	7	- 8	Stonyhurst	4·4	- 0·6	34	5	20	•	•	•	•
p Blackpool	66	48	5th	30	2nd	44·0	35·0	39·3	- 4·5	1	0·06	2	- 8	Blackpool	4·2	- 1·7	32	5	13	39·9	—	41·7	—
a Southport	37	47	5th	28	30th	44·6	33·4	38·7	- 5·4	3	0·10	3	- 7	Southport	3·6	- 2·1	28	5	20	39·1	-5·0	40·1	-3·8
														Hoylake	4·0	- 1·4	31	•	•	•	•	•	•
a Liverpool (Bidston)	188	50	5th	28	30th	44·1	33·6	38·6	- 6·1	4	0·47	12	+ 3	Liverpool	3·7	—	28	5	22	•	•	•	•
a Hawarden Bridge	22	53	5th	28	30th	46·3	34·9	40·3	- 5·1	3	0·18	5	- 2	Manchester (City)	2·7	- 1·5	21	2	26	35·8	-6·6	39·9	-3·8
p Manchester (Whit. Pk.)	125	51	4th	29	30th	45·3	35·6	40·2	- 4·9	2	0·14	4	- 6	Whitworth Park	1·8	- 2·0	14	•	•	•	•	•	•
b NORTH WALES.																						
p Llandudno	16	49	4, 5	29	2nd	45·3	34·0	39·4	- 5·9	4	0·52	13	+ 4	Llandudno	4·9	- 0·9	38	•	•	•	•	•	•
a Holyhead	15	52	4, 5	31	30th	47·7	34·1	40·6	- 4·3	3	0·68	17	+ 6	Holyhead	6·2	—	48	2	18	•	•	•	•
a Beddgelert	309	51	4th	28	30, 2	44·7	32·6	38·4	—	6	1·79	45	—	Aberdovey	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.				Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average.
8. *a.* SOUTH WALES.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		° F.	°F.	°F.	°F.	°F.
a Aberystwyth	59	45	4,5	30	30th	43·4	32·7	37·8	—	2	0·34	9	—	Aberystwyth ..	3·8	− 1·3	29	•	•	•	•	•	•
a Rhayader	757	52	4th	25	30th	44·0	28·0	35·6	—	2	0·09	2	—	Rhayader ..	4·9	—	38	7	19	•	•	•	•
a St. Ann's Head	149	53	4th	33	30 31	46·7	35·6	40·9	− 4·2	1	0·04	1	− 10	St. Ann's Head	6·5	+ 0·9	50	•	•	•	•	•	•
p Cardiff	202	51	5th	27	30th	46·9	31·4	38·8	− 6·1	2	0·03	1	− 13	Cardiff	5·6	—	43	7	16	39·7	−4·9	42·1	−2·5
b. ENGLAND, S.W.																							
a Bath	66	55	4th	26	3rd	49·4	29·6	39·0	− 6·3	1	0·03	1	− 9	Bath	•	•	•	•	•	40·9	−4·4	43·1	−2·2
a Shaftesbury	722	55	5th	24	31st	47·1	30·7	38·5	− 5·5	2	0·06	2	− 9	Shaftesbury ..	•	•	•	•	•	40·3	•	42·2	•
a Arlington	613	53	4th	28	3rd	45·4	30·8	37·8	− 6·3	3	0·38	10	− 7										
a Newquay	190	49	5th	30	3rd	45·3	32·3	38·5	− 7·9	2	0·23	6	− 5	Newquay ..	7·9	+ 2·4	61	6	26	44·0	•	46·1	•
a Cullompton	202	54	5th	26	30, 3	48·6	28·7	38·2	− 7·4	2	0·15	4	− 8	Cullompton ..	5·2	+ 0·3	40	7	17	42·2	•	•	•
a Portland Bill	19	54	5th	32	30th	47·0	35·7	41·1	− 4·5	0	0·00	0·1	− 9	Weymouth ..	8·6	—	67	•	•	•	•	•	•
p Plymouth	116	57	5th	30	30th	49·7	33·6	41·3	− 5·4	3	0·26	7	− 5	Plymouth ..	6·6	+ 1·1	51	7	21	42·2	−4·9	45·1	•
a Falmouth	167	54	5th	30	31st	49·1	32·6	40·5	− 6·0	3	0 32	8	− 6	Falmouth ..	7·2	+ 1·4	56	6	21	45·5	•	46·9	•
9. IRELAND. N.																							
a West .. { *a* Malin Head	208	48	3,4	29	30th	45·1	36·6	40·7	− 3·1	6	0·27	7	− 4	Malin Head ..	4·7	—	36	•	•	•	•	•	•
{ *a* Blacksod Point ..	327	50	5th	28	31st	46·1	34·4	40·0	− 5·3	6	0·95	24	+ 6	Markree Castle	4·2	− 0·7	32	4	20	42·0	−3·6	42·8	−2·1
{ *p* Markree Castle ..	122	53	4,5	25	30, 2	48·6	34·3	41·1	− 3·1	6	0·55	14	− 2										
b. East .. { *p* Armagh	196	55	4,5	27	2nd	50·6	34·3	42·1	− 1·8	6	0·20	5	− 7	Armagh	4·4	− 0·4	34	4	18	40·6	−3·7	41·8	−2·6
{ *a* Donaghadee	101	54	4th	27	30th	48·3	32·6	40·1	− 4·0	2	0·08	2	− 9										
10. IRELAND, S.																							
p Dublin, City	47	54	4,5	27	30th	48·3	36·0	41·9	− 4·3	4	0·32	8	− 2	Trinity Coll. ..	•	•	•	4	23	41·3	−4·0	43·3	−2·2
a Birr Castle	175	53	4th	25	31st	48·6	30·9	39·3	− 5·2	4	0·21	5	− 7	Phœnix Park ..	5·1	− 0·2	39	4	19	•	•	•	•
a Kilkenny	212	54	4th	26	30th	48·4	33·3	40·5	− 4·5	3	0·07	2	− 10	Dublin City ..	•	•	•	4	25	•	•	•	•
a Waterford	120	54	4th	27	30th	48·7	33·7	40·8	− 5·2	2	0·13	3	− 11	Birr Castle ..	4·3	− 0·6	33	5	13	•	•	•	•
p Seskin, Carrick-on-Suir	541	53	2,4	25	30th	48·6	32·4	40·1	—	3	0·11	3	—	Seskin	5·0	—	38	4	23	•	•	•	•
a Cahir	199	55	4th	28	31st	49·3	34·7	41·7	− 3·5	3	0·14	4											
a Foynes	50	54	4,5	30	30, 31, 2	49·1	35·3	41·9	− 4·2	5	0·20	5	− 9										
a Cahirciveen (Val. Obs.)	30	52	4th	29	31st	47·7	34·6	40·8	− 6·0	3	0·20	5	− 16	Cahirciveen ..	6·1	+ 0·9	47	3	27	•	•	•	•
a Killarney	174	54	2,4	27	31st	50·5	33·6	41·6	− 4·6	7	0·31	8	− 11	Ballinacurra ..	5·6	0·0	43	•	•	•	•	•	•
a Roche's Point	32	53	4th	32	30, 31	49·0	35·3	41·8	− 4·5	1	0·04	1	− 14										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	52	3rd	34	30, 31, 1	48·3	37·3	42·5	− 5·1	5	0·25	6	− 4	Scilly	7·9	+ 2·3	61	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	54	4,5	31	31st	49·0	33·3	40·8	− 6·9	2	0·12	3	− 7	St. Heliers ..	9·7	+ 3·7	75	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	56	5th	33	31, 3	50·4	35·0	42·3	− 5·5	1	0·13	3	− 8	Guernsey† ..	9·2	+ 3·2	71	3	27	43·3	−4·4	45·2	−2·3

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, April 5th, 1919.

DISTRICT AND STATION.	Height.			Distribution of Wind.†								Extreme Velocities.							
	Above Mean Sea Level	Above Ground.	Above Building.	More than 17 m/s or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.			
				Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Veer from N.	Speed.	Mid Time.		Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m./s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	29	3	29 to 31, 2, 4	47	83	35	0	0	315	19	29	9	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	9	139	20	0	293	7	5	12	17	30	16	5
Aberdeen	153	105	52	—	—	30, 5	4	74	70	20	0	281	13	5	13	20	30	14	25
Edinburgh	485	39	31	—	—	4, 5	12	102	38	16	0	270	12	4	21	20	5	10	0
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	30	1	66	67	34	0	290	11	30	10	17	5	13	25
Paisley	188	81	52	—	—	—	—	31	123	14	0	259	10	5	11	22	5	10	15
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	30	92	46	0	270	8	5	2	18	5	11	45
South Shields	72	61	12	—	—	5	3	64	76	25	0	203	13	5	13	20	5	13	20
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	—	—	13	125	30	0	—	7	30	14	—	—	—	—
Gorleston	52	42	‡	—	—	—	—	12	122	34	0	—	7	30	11	14	30	12	0
Shoeburyness	103	90	‡	—	—	30	3	29	91	45	0	259	12	30	21	21	30	13	10
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	10	66	91	1	294	9	30	14	16	30	14	10
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	21	79	68	0	—	8	30	14	18	30	13	45
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	35	116	17	0	325	10	30	16	17	30	12	0
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	—	23	145	0	293	4	30	16	12	30	14	0
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	10	76	82	0	225	9	30	12	14	30	11	0
Fleetwood (Cup Anr.) ..	109	44	—	30	1	30	14	45	87	21	0	304	17	30	14	—	—	—	—
Southport	80	62	48	—	—	30, 31, 5	23	71	66	8	0	281	17	30	14	23	30	14	30
Holyhead	60	40	‡	—	—	30	16	71	54	27	0	293	15	30	13	20	30	13	55
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	—	—	18	89	32	29	315	8	30	13	14	30	13	15
Plymouth	185	88	‡	—	—	—	—	1	101	66	0	—	6	2	9	16	30	13	20
Lyme Regis	556	61	‡	—	—	—	—	11	29	128	0	—	10	30	15	15	30	14	10
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	30, 31	8	83	69	8	0	270	14	30	9	—	—	—	—
Quilty	100	40	‡	—	—	—	—	54	92	22	0	—	10	1	15	16	1	14	35
Cahirciveen (Val. Obs.)	98	41	‡	—	—	1	3	44	76	22	23	5	12	1	10	21	1	3	30
Weaver Pt.	160	30	‡	—	—	—	—	97	71	0	0	—	10	1	14	20	1	15	20
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	35	102	31	0	315	11	30	13	18	1	2	30

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.] * Above tops of trees.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FOURTEENTH WEEK of 1919—March 30th to April 5th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	56	23	79·7	73·5	76·5	− 1·9	6	− 16	32	+ 10	6	+ 2	1·09	28	+·8	3·5	−0·9	27	1009
Eastern.																			
1. SCOTLAND, EAST ...	58	16	80·3	73·4	76·7	− 1·9	9	− 17	32	+ 7	4	0	0·28	7	− 3	2·7	−2·3	21	1010
2. ENGLAND, N.E.	57	23	81·8	73·4	77·4	− 1·8	17	− 11	34	+ 16	2	− 1	0·13	3	− 4	4·9	−0·6	38	1011
3. ENGLAND, EAST ...	58	23	81·9	71·9	76·7	− 3·0	17	− 18	43	+ 25	1	− 2	0·04	1	− 6	6·0	+0·4	46	1013
4. MIDLAND COUNTIES ...	57	22	81·8	72·5	76·9	− 2·9	17	− 21	39	+ 19	2	− 1	0·07	2	− 7	4·7	−0·4	36	1013
5. ENGLAND, S.E.	61	24	81·9	72·4	76·9	− 3·7	17	− 21	40	+ 29	1	− 2	0·05	1	− 7	6·7	+1·1	52	1013
Western.																			
6. SCOTLAND, WEST ...	54	23	81·4	73·9	77·6	− 1·9	15	− 13	32	+ 15	4	0	0·18	5	− 11	4·3	−0·9	33	1012
7. ENGLAND, N.W.	56	24	80·5	74·0	77·1	− 2·6	10	− 20	29	+ 14	3	0	0·30	8	− 3	4·1	−1·1	32	1014
8. ENGLAND, S.W.	57	24	81·6	72·8	76·9	− 3·5	15	− 21	37	+ 28	2	− 1	0·14	4	− 9	6·0	−0·8	47	1015
9. IRELAND, NORTH ...	55	25	81·8	74·1	77·8	− 2·0	17	− 14	31	+ 18	5	+ 1	0·38	10	− 4	4·3	−0·5	33	1014
10. IRELAND, SOUTH ...	55	25	82·3	74·2	78·1	− 3·6	19	− 19	29	+ 20	4	0	0·18	5	− 9	5·3	0·0	41	1017
11. ENGLISH CHANNEL ...	56	31	82·6	74·8	78·5	− 3·2	20	− 22	27	+ 25	3	− 1	0·17	4	− 6	8·9	+3·0	69	1015

THE SEASON (Spring).—Aggregates, &c., for the Period of 5 Weeks, March 2nd to April 5th, 1919.

0. SCOTLAND, NORTH ...	56	18	78·5	72·5	75·4	− 1·9	10	− 60	208	+ 67	26	+ 2	4·14	105	− 15	4·2	+0·8	35	1009
Eastern.																			
1. SCOTLAND, EAST ...	58	11	78·4	71·5	74·9	− 2·5	12	− 76	240	+ 82	19	− 2	2·29	59	− 8	3·5	−0·4	29	1009
2. ENGLAND, N.E.	57	19	79·5	73·4	76·5	− 1·7	34	− 71	172	+ 51	19	0	2·73	69	+ 21	3·2	−1·1	26	1009
3. ENGLAND, EAST ...	58	21	80·4	73·5	77·0	− 1·5	55	− 76	151	+ 27	19	+ 2	2·26	58	+ 12	3·3	−1·1	28	1010
4. MIDLAND COUNTIES ...	58	22	80·1	73·2	76·6	− 1·9	43	− 94	180	+ 48	19	+ 2	4·35	110	+ 59	3·3	−0·6	27	1011
5. ENGLAND, S.E.	61	24	81·1	74·5	77·7	− 1·5	78	− 60	122	+ 29	21	+ 4	3·91	98	+ 45	3·5	−0·9	29	1011
Western.																			
6. SCOTLAND, WEST ...	54	20	79·6	72·9	76·2	− 2·1	32	− 64	189	+ 78	19	− 2	4·08	103	+ 4	3·8	−0·2	31	1011
7. ENGLAND, N.W.	56	19	79·4	73·6	76·4	− 2·2	27	− 78	164	+ 63	18	− 1	4·76	122	+ 53	3·3	−0·7	27	1011
8. ENGLAND, S.W.	59	21	80·9	74·4	77·5	− 1·8	65	− 69	132	+ 53	22	+ 3	5·23	133	+ 53	4·2	−0·1	35	1012
9. IRELAND, NORTH ...	55	22	80·5	73·5	76·9	− 2·0	50	− 65	165	+ 70	24	+ 1	3·21	81	0	3·3	−0·5	28	1011
10. IRELAND, SOUTH ...	56	24	81·3	74·3	77·7	− 2·0	69	− 80	143	+ 70	25	+ 5	2·97	76	− 9	3·6	−0·7	30	1013
11. ENGLISH CHANNEL ...	56	31	82·4	77·1	79·7	− 1·0	117	− 48	53	+ 27	26	+ 5	5·11	129	+ 62	4·7	−0·4	39	1012

THE YEAR 1919.—Aggregates, &c., for the Period of 14 Weeks, December 29th, 1918, to April 5th, 1919.

0. SCOTLAND, NORTH ...	56	11	77·9	72·5	75·2	− 1·5	14	−115	616	+ 155	62	− 8	10·13	258	−137	2·5	+0·4	27	1007
Eastern.																			
1. SCOTLAND, EAST ...	58	5	77·5	71·7	74·6	− 1·9	12	−139	708	+ 176	56	− 1	7·96	204	+ 10	2·3	−0·4	24	1008
2. ENGLAND, N.E.	57	11	78·5	73·3	75·9	− 1·3	44	−143	537	+ 111	61	+ 8	8·59	219	+ 82	2·1	−0·7	21	1008
3. ENGLAND, EAST ...	58	10	79·0	73·3	76·1	− 1·2	90	−132	540	+ 89	59	+ 7	7·94	203	+ 68	2·1	−0·9	21	1009
4. MIDLAND COUNTIES ...	58	9	78·6	72·9	75·8	− 1·5	66	−172	591	+ 123	56	+ 4	10·58	268	+111	2·1	−0·5	21	1009
5. ENGLAND, S.E.	61	16	79·7	74·2	77·0	− 1·9	161	− 94	424	+ 71	63	+12	11·01	278	+111	2·3	−0·7	23	1009
Western.																			
6. SCOTLAND, WEST ...	54	14	78·8	73·4	76·1	− 1·4	49	−133	504	+ 134	55	− 8	10·97	278	− 46	2·4	−0·1	24	1008
7. ENGLAND, N.W.	56	16	78·8	73·8	76·3	− 1·4	48	−149	471	+ 120	57	+ 1	9·82	249	+ 32	2·3	−0·3	23	1008
8. ENGLAND, S.W.	59	15	79·9	74·5	77·2	− 1·3	147	−131	386	+ 106	65	+ 8	15·08	384	+127	2·9	0·0	29	1009
9. IRELAND, NORTH ...	55	22	79·9	74·2	77·0	− 1·2	107	−132	409	+ 99	65	− 2	8·88	224	− 29	2·7	+0·2	27	1007
10. IRELAND, SOUTH ...	56	22	80·7	74·8	77·8	− 1·2	179	−152	350	+ 109	66	+ 5	10·42	266	− 11	2·8	−0·1	28	1008
11. ENGLISH CHANNEL ...	56	26	81·7	77·2	79·4	− 0·7	285	− 97	137	+ 33	74	+11	16·79	425	+208	3·0	−0·5	29	1009
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	m.

METEOROLOGICAL OFFICE, LONDON: COL. H. G. LYONS, R.E., F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: April 11th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. *Vol. XXXVI. (New Series.)* } No. 15.

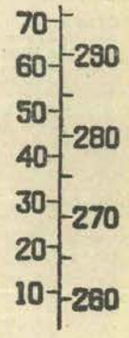
THE FIFTEENTH WEEK OF 1919.

SUNDAY, APRIL 6TH, TO SATURDAY, APRIL 12TH, 1919.

Price 6d., Post free 6½d. Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

Barometric pressure was high to the southward of the British Isles throughout the week, while the area of low pressure was situated between Iceland and our north-western coasts. Numerous secondary depressions passed across the United Kingdom, and the weather was changeable and unsettled, with variable temperature and frequent showers of rain and hail. Rather high maximum temperatures were recorded on one or two days in most districts; in London on the 7th the thermometer rose to 290 a. and in the South of Ireland on the 10th there were similar readings, while on the 11th a warm wave spread nearly all over the country, attaining its maximum at the most eastern stations, and locally at Ross-on-Wye. With the exception of the Channel Islands, where there was a slight deficit, the mean temperature for the week was in excess of the normal, the largest divergence being 2 a. in England N.E. In Scotland N. rainfall was heavy, Fort William having a total of 122mm., 65mm. of which fell on the 10th: generally the southern and south-western districts had more than the normal and the eastern districts rather less. Bright sunshine exceeded the normal in Scotland N. and E., but in all other districts there was a deficiency, the daily mean in England S.E. and the English Channel being 2½ hrs. per day less than the normal. Thunderstorms occurred about the middle or at the end of the week in many parts of eastern Britain and in the North of Ireland. Solar halos were observed at Aberdeen on the 8th and 11th, and at Oxford on the 7th and 12th, and lunar halos at Dublin on the 8th, at Southport on the 10th, and at many stations on the 11th and 12th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.*		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	22	4·6	20	3·3	—	—	17	2·6	23	4·1	—	—	24	3·4	24	4·4
North	2	3·1	2	2·2	—	—	3	1·5	0	—	—	—	0	—	2	1·4
West	18	5·8	28	7·4	—	—	23	2·5	28	4·6	—	—	27	6·2	24	4·5
East	4	2·2	0	—	—	—	0	—	0	—	—	—	1	0·9	2	2·2
Calm	4	—	0	—	—	—	5	—	0	—	—	—	0	—	2	—

* For Scotland N. (Deerness) the week ends at midnight on Friday.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Unusual	Unusual	Unusual	Unusual	Moderate	Moderate	Unusual	Unusual	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Very Heavy	Moderate	Light	Moderate	Moderate	Moderate	Heavy	Moderate	Moderate	Moderate	Moderate	Moderate
	Sunshine ...	Moderate	Moderate	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate	Scanty	Moderate	Scanty	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SPRING. 6 weeks from March 2nd, 1919.	Warmth ...	1, 1, 4	1, 1, 4	1, 2, 3	1, 2, 3	0, 3, 3	1, 2, 3	1, 1, 4	1, 2, 3	0, 3, 3	0, 1, 5	0, 1, 5	0, 3, 3
	Rainfall ...	3, 1, 2	2, 3, 1	3, 0, 3	1, 4, 1	3, 2, 1	2, 3, 1	2, 3, 1	3, 3, 0	3, 2, 1	1, 5, 0	0, 5, 1	4, 2, 0
	Sunshine ...	3, 3, 0	2, 2, 2	0, 2, 4	1, 1, 4	1, 1, 4	1, 1, 4	1, 3, 2	1, 3, 2	2, 3, 1	0, 4, 2	0, 4, 2	1, 2, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(22725—19.) Wt. 162—833/512. 625. 4/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.				Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft	
																		Ground Frosts	Lowest Reading.	Mean	Deviation from Average.	Mean	Deviation from Average
	Ft.	°F.		°F		F.	°F.	°F.	°F		in.	mm.	mm.		hr.	hr.	°/.		°F.	°F.	°F	°F.	°F.
0. SCOTLAND, N.																							
a. Islands .. a Lerwick ..	54	49	9, 11	33	6th	47·3	38·1	42·5	+ 2·4	6	1·46	37	+ 22										
a Houton Bay, Orkney	520	49	11th	32	6th	47·0	37·1	41·8	—	7	0·90	23	+ 9	Houton Bay ..	4·4	- 0·2	32	0	31	•	•	•	•
a Stornoway	51	53	11th	36	10th	49·4	40·1	44·5	+ 2·4	7	1·46	37	+ 17	Stornoway ..	4·9	0·0	36	•	•	•	•	•	•
a Castlebay, Barra I. ..	37	50	10, 11	39	12th	47·7	42·3	44·9	—	7	0·59	15	—	Castlebay ..	4·5	—	33	•	•	•	•	•	•
b. Mainland. a Wick	81	56	11th	34	9, 10	50·7	37·6	43·8	+ 2·2	7	0·37	9	- 4										
a Strathpeffer	125	58	11th	30	10th	51·6	36·7	43·8	+ 1·3	5	1·05	27	+ 14										
p Glencarron	600	49	8, 11	34	12th	47·1	38·1	42·4	+ 0·1	7	4·45	113	+ 73										
a Fort Augustus.. ..	68	—	—	—	—	—	—	—	—	3	1·07	27	+ 10										
p Fort William	171	53	11th	35	10th	50·1	40·1	44·9	+ 1·5	7	4·80	122	+ 92										
1. SCOTLAND, E.																							
a Nairn	82	59	11th	30	10th	54·6	37·0	45·4	+ 2·8	5	0·36	9	- 2	Nairn	5·4	—	39	•	•	•	•	•	•
p Gordon Castle	101	60	11th	34	10th	54·3	39·9	46·8	+ 3·9	1	0·08	2	- 10	Gordon Castle..	4·7	—	34	•	•	•	•	•	•
a Aberdeen	46	63	11th	33	10th	55·4	38·9	46·8	+ 4·3	2	0·09	2	- 11	Aberdeen ..	4·5	- 0·4	33	3	21	•	•	39·7	-2·3
a Balmoral	930	58	11th	28	10th	50·0	35·9	42·6	+ 3·2	5	0·18	5	- 11	Balmoral ..	•	•	•	3	24	•	•	•	•
p Crieff	432	57	11th	30	10th	52·4	37·6	44·6	+ 1·3	5	0·33	8	- 7	Crathes	4·6	- 0·1	34	4	19	41·7	-0·9	38·4	-3·1
a Dundee	244	59	11th	28	10th	54·6	37·7	45·7	+ 2·9	2	0·11	3	- 9	Dundee	4·8	—	35	2	21	41·3	•	•	•
a Leith	30	58	11th	34	10th	54·3	41·6	47·7	+ 3·6	3	0·17	4	- 5	Leith	—	—	—	1	29	•	•	•	•
p Edinburgh	441	59	11th	36	10th	53·3	41·0	46·9	+ 4·3	3	0·12	3	- 7	Edinburgh ..	4·8	+ 0·5	35	0	33	•	•	•	•
a West Linton	769	54	11th	30	10th	50·0	37·6	43·5	+ 3·5	6	0·56	14	—	West Linton ..	3·0	—	22	1	23	•	•	•	•
p Marchmont	498	57	11th	29	10th	54·1	36·7	45·0	+ 3·0	0	0·00	0	- 14	Marchmont ..	4·2	- 0·3	31	•	•	•	•	•	•
6. a. SCOTLAND, W.																							
a Ford (Argyll)	149	54	11th	35	10, 11	50·4	39·0	44·4	—	7	3·81	97	—	Ford (Argyll) ..	•	•	•	0	31	42·6	—	39·6	—
p Glasgow Observatory	180	55	7, 11	37	10th	51·4	41·7	46·3	+ 2·4	5	0·60	15	+ 3	Glasgow.. ..	3·8	- 0·2	28	1	30	•	•	•	•
p Rothesay	200	53	11th	36	10th	50·4	40·0	45·0	+ 0·7	7	1·24	31	+ 13	Rothesay	3·2	—	24	1	30	44·1	•	41·9	-2·0
a Kilmarnock	90	56	11th	36	10th	52·9	32·0	47·2	+ 4·0	7	0·34	9	- 4	Kilmarnock ..	4·1	—	30	•	•	43·5	•	40·7	—
a Colmonell	170	58	11th	34	10th	53·1	42·0	47·3	+ 3·8	5	0·19	5	- 10	Colmonell ..	•	•	•	1	30	•	•	•	•
p Cally Gatehouse ..	120	55	11th	31	10th	52·6	40·4	46·2	+ 2·8	6	0·56	14	- 3	Dumfries	3·5	—	26	1	23	43·4	+0·5	40·8	-3·1
p Dumfries	160	57	11th	34	9th	52·7	41·7	46·9	+ 2·7	4	0·22	6	- 7	Eskdalemuir ..	4·8	—	35	2	21	•	•	•	•
a Eskdalemuir	794	53	11th	28	10th	50·3	36·0	42·8	—	6	0·69	18	—										
b. I. OF MAN p Douglas	277	57	11th	38	9, 10	51·6	41·7	46·4	+ 2·3	6	0·80	20	+ 5	Douglas	4·8	- 1·0	33	1	30	•	•	•	•
2. ENGLAND, N.E.																							
a Alnwick Castle ..	210	59	11th	34	10th	55·1	40·3	47·3	+ 4·6	3	0·20	5	- 7										
a Tynemouth	71	58	11th	36	10th	54·3	40·4	47·0	+ 4·0	1	0·08	2	- 7	Cockle Park ..	4·1	- 0·5	30	2	28	42·1	-0·5	40·3	-2·3
p Durham	336	57	6th	31	10th	53·1	39·6	46·0	+ 3·1	4	0·17	4	- 6	Durham	4·9	+ 0·5	36	3	21	•	•	•	•
a North .. p Rounton	249	60	11th	31	10th	54·7	38·6	46·3	+ 3·5	5	0·15	4	- 7	Rounton	•	•	•	6	19	42·9	•	•	•
a West Witton	605	54	11th	34	10th	52·6	40·1	46·1	—	6	0·16	4	—	West Witton ..	•	•	•	1	27	41·9	•	37·6	•
p Scarborough	100	58	6, 11, 12	36	10th	55·6	41·9	48·4	+ 4·5	1	0·06	2	- 8	Scarborough† ..	3·8	- 1·1	28	•	•	•	•	39·7	•
p York	56	60	11th	34	10th	54·9	42·6	48·5	+ 3·7	3	0·12	3	- 7	York	3·1	- 1·2	23	—	—	43·0	-1·5	41·5	-2·1
b. South .. a Spurn Head	26	57	11th	35	10th	52·7	39·7	45·9	+ 2·0	4	0·24	6	- 1	Spurn Head ..	1·6	—	12	•	•	•	•	•	•
a Lincoln	68	60	11th	33	10th	54·6	41·0	47·5	+ 2·4	4	0·11	3	- 6	Lincoln	•	•	•	2	27	42·8	-1·6	41·1	-2·5
a Fulbeck	180	60	11th	33	10th	54·9	41·1	47·7	+ 2·7	5	0·17	4	- 6	Fulbeck*	3·1	- 2·0	23	•	•	44·6	-1·8	42·1	-2·6
														Skegness ..	3·3	- 2·1	25	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	63	11th	34	10th	57·3	40·7	48·6	+ 4·4	5	0·14	4	- 4	Cromer	3·1	- 2·2	23	•	•	•	•	•	•
a Little Massingham ..	280	59	11th	31	10th	54·6	38·0	45·9	+ 1·3	5	0·11	3	- 7	Lit. Massingham	2·4	- 2·6	18	•	•	•	•	•	•
a Yarmouth	13	63	11th	34	9, 10	55·7	38·9	46·9	+ 3·0	5	0·39	10	0	Yarmouth ..	4·1	—	31	0	32	44·9	-1·8	43·6	-2·9
a Norwich	93	61	11th	34	9, 10	56·4	40·7	48·2	+ 3·4	5	0·26	7	- 4	Norwich	2·3	—	17	2	28	43·3	•	•	•
a Geldeston	37	63	11th	31	10th	57·7	38·7	47·7	+ 3·2	5	0·26	7	- 2	Geldeston ..	3·1	- 2·1	23	•	•	•	•	•	•
p Cambridge	41	60	11th	28	9th	55·6	37·9	46·3	+ 0·9	4	0·26	7	- 2	Cambridge ..	2·1	- 3·1	16	3	26	44·0	-2·5	43·1	-2·8
a Clacton-on-Sea ..	54	60	11th	35	10th	54·3	40·0	46·8	+ 2·3	4	0·46	12	+ 4	Clacton	3·0	- 1·7	29	2	29	45·5	-0·9	44·4	-2·2
a Rothamsted	424	58	7th	31	10th	54·1	38·7	46·9	+ 1·5	5	0·46	12	+ 2	Rothamsted ..	3·1	- 1·8	23	3	23	42·8	•	•	•
p Tottenham	51	60	7, 11	37	10th	54·9	44·3	49·4	—	5	0·35	9	—	Tottenham ..	2·7	—	20	0	34	•	•	43·3	-2·5
4. MIDLAND COUNTIES.																							
a North .. a Harrogate	479	58	11th	34	10th	53·0	39·4	45·9	+ 2·9	4	0·13	3	- 8	Harrogate	4·3	- 0·6	32	2	27	42·0	-0·8	41·0	-1·8
p Sheffield	429	58	11th	36	10th	53·7	42·1	47·6	—	3	0·21	5	—	Sheffield.. ..	3·0	- 1·4	22	2	29	42·0	-1·4	39·8	-2·8
p Buxton	987	53	11th	35	9, 10	49·3	36·9	44·4	—	5	0·60	15	- 2	Buxton	2·1	—	16	1	28	40·8	-2·3	38·6	—
a Bawtry	65	61	11th	42	10th	55·6	43·7	49·4	+ 4·5	2	0·07	2	- 6	Worksop	2·3	- 2·0	17	3	21	42·9	—	41·5	•
a Nottingham	82	60	11th	33	9th	55·3	40·1	47·3	+ 2·5	5	0·26	7	- 1	Nottingham ..	2·4	- 2·2	18	2	26	43·5	-1·0	39·3	-3·6
b East .. p Birmingham, Edgbas.	535	57	10, 11	35	9, 10	54·0	41·4	47·4	+ 2·8	4	0·25	6	- 4	Birmingham ..	2·8	- 1·0	21	0	31	42·6	-0·8	41·7	-2·4
a Raunds	203	60	11th	31	10th	55·6	39·1	47·0	+ 1·9	5	0·31	8	0	Raunds	2·4	—	18	2	23	42·7	•	42·4	•
p Oxford	208	58	11th	36	10th	55·1	42·3	48·4	+ 2·6	5	0·45	11	+ 2	Oxford	2·2	- 2·7	16	2	27	•	•	•	•
														Malvern	3·6	—	27	2	29	44·0	—	41·7	•
a Cheadle (N. Staffs.) ..	646	55	11th	33	9th	52·3	40·9	46·3	+ 2·8	6	0·20	5	- 7	Cheadle	•	•	•	2	27	•	•	•	•
c. West .. p Tenbury	313	60	10th	36	9th	55·6	41·4	48·2	+ 3·4	4	0·22	6	- 3	Tenbury	•	•	•	1	30	44·2	•	•	•
p Ross-on-Wye	201	64	10th	34	9th	57·7	41·3	49·1	+ 3·3	4	0·38	10	0	Ross-on-Wye ..	3·7	—	28	1	30	—	—	•	•
a Clifton	228	55	7, 11	39	9th	53·0	42·6	47·6	+ 1·1	5	0·50	13	- 3	Clifton	3·7	—	28	0	36	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	56	7, 11	31	9th	54·4	38·7	46·2	+ 2·0	6	0·41	10	0	Marlborough ..	2·9	- 2·7	22	3	27	45·4	-1·9	44·4	-2·1
p Salisbury (Wilton) ..	180	58	7, 8	31	9th	56·3	39·3	47·4	+ 2·0	5	0·46	12	+ 1	Salisbury	•	•	•	2	27	46·1	•	45·2	—
a Wisley, Surrey ..	150	60	7th	35	9, 10	56·0	41·3	48·3	+ 2·7	3	0·38	10	+ 3	Wisley	3·2	- 1·7	24	3	22	44·5	-1·2	42·4	-2·9
a Tunbridge Wells ..	354	60	7th	32	10th	56·0	39·4	47·3	+ 1·8	4	0·51	13	+ 4	Tunbridge Wells	1·8	- 3·6	13	5	20	44·5	-0·7	43·2	—
a Margate	51	60	11th	36	10th	55·6	42·7	48·8	+ 3·0	4	0·63	16	+ 9	Margate	3·1	- 2·2	23	0	31	46·4	+0·4	44·1	-1·4
a Dungeness	21	53	6, 7	31	10th	50·6	38·0	44·0	- 1·0	3	0·28	7	0	Folkestone ..	2·9	—	22	•	•	•	•	42·9	—
p St. Leonards	178	56	7th	35	10th	52·4	41·6	46·7	+ 0·9	4	0·43	11	+ 3	St. Leonards ..	2·8	- 2·8	21	0	31	45·1	•	43·7	—
p Southampton	64	58	6, 10	36	10th	56·1	42·4	48·9	+ 1·6	6	0·56	14	+ 5	Southampton ..	3·2	- 2·2	24	3	24	•	•	•	•
a Ventnor	59	55	6, 10	38	7th	52·9	42·0	47·2	+ 0·2	4	0·55	14	+ 5	Ventnor	3·4	- 2·2	26	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	60	7th	35	10th	55·7	40·3	47·6	+ 1·5	4	0·31	8	+ 1	Richmond	2·9	- 2·0	22	2·	25	45·0	-0·9	43·0	-2·6
a Westminster	27	62	7th	35	10th	56·7	43·7	49·9	+ 2·9	4	0·36	9	+ 2	Westminster ..	2·6	- 1·4	19	2	28	•	•	•	•
ag Greenwich	149	63	7th	36	10th	57·9	41·9	49·5	+ 2·8	4	0·34	9	0	Greenwich	2·8	- 1·8	21	3	26	•	•	•	•
a Hampstead	450	59	7th	34	10th	54·0	41·4	47·4	—	5	0·48	12	—	Hampstead	2·7	—	20	2	26	•	•	•	•
ag Camden Square ..	110	63	7th	35	9, 10	57·1	41·7	49·0	+ 1·8	5	0·51	13	+ 5	Camden Square ..	2·5	- 1·8	19	1	30	•	•	•	•
7. a. ENGLAND, N.W.																							
p Aspatria (Mealsgate) ..	487	—	—	36	10th	—	41·0	[illegible]	—	6	0·52	13	0	Aspatria	3·6	- 1·3	26	0	34	43·3	-0·6	41·2	-3·2
p Newton Rigg	559	54	11th	36	10th	50·6	41·3	45·7	+ 3·1	5	0·35	9	- 3	Newton Rigg ..	3·1	- 1·8	23	1	30	43·1	-0·9	40·1	-2·4
p Stonyhurst	375	57	11th	37	10th	51·3	41·6	46·2	+ 2·7	5	0·66	17	+ 1	Stonyhurst ..	3·4	- 1·4	25	0	32	•	•	•	•
p Blackpool	66	54	7th	41	9, 10	50·9	43·1	46·8	+ 2·6	5	0·28	7	- 4	Blackpool	4·3	- 1·3	32	0	33	44·6	—	42·2	—
a Southport	37	59	11th	39	10th	52·4	42·6	47·3	+ 2·8	5	0·26	7	- 4	Southport	4·4	- 1·0	33	0	32	46·2	+0·3	42·5	-2·5
														Hoylake	4·9	- 0·3	37	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	57	11th	39	10th	52·9	41·7	47·0	+ 1·9	4	0·28	7	- 3	Liverpool	4·9	—	37	0	34	•	•	•	•
a Hawarden Bridge ..	22	60	10th	39	9, 10	55·0	43·7	49·1	+ 3·3	5	0·19	5	- 3	Manchester (City)	2·7	- 1·4	20	0	33	42·8	-0·8	41·0	-3·3
p Manchester (Whit. Pk.)	125	60	11th	35	10th	53·3	42·6	47·7	+ 2·2	5	0·36	9	- 2	Whitworth Park	2·7	- 1·0	20	•	•	•	•	•	•
b NORTH WALES.																							
p Llandudno	16	57	11th	40	10th	52·4	43·3	47·6	+ 2·0	4	0·33	8	- 3	Llandudno	4·8	- 0·7	36	•	•	•	•	•	•
a Holyhead ..	15	55	11th	39	11th	52·0	42·6	47·1	+ 1·9	4	0·59	15	+ 3	Holyhead	5·0	—	37	0	36	•	•	•	•
a Beddgelert	309	53	6th	37	10th	50·1	41·7	45·7	—	7	1·36	35	—	Aberdovey ..	—	—	—	•	•	•	•	•	•
a Aberdovey	23	-	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average
8. *a.* SOUTH WALES.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.		hr.	hr.	%		° F.	°F.	°F.	°F.	°F.
a Aberystwyth	59	50	10,11	40	6th	48·3	42·4	45·2	—	5	0·37	9	—	Aberystwyth	3·9	- 1·5	29	•	•	•	•	•	•
a Rhayader	767	55	10th	36	9th	51·0	41·1	45·8	—	6	0·44	11	—	Rhayader	4·6	—	34	1	29	•	•	•	•
a St. Ann's Head	149	51	6th	42	9th	49·0	43·9	46·3	+ 0·8	4	0·47	12	+ 1	St. Ann's Head	5·1	- 0·8	38	•	•	•	•	•	•
p Cardiff	202	55	6,7	32	9th	52·4	40·6	46·2	+ 0·6	6	0·65	17	+ 3	Cardiff	3·7	—	28	2	29	44·9	-1·1	42·9	-2·4
b, ENGLAND, S.W.																							
a Bath	66	58	11th	35	9th	55·6	41·6	48·3	+ 2·3	5	0·41	10	- 1	Bath	•	•	•	•	•	44·9	-1·8	43·7	-2·3
a Shaftesbury	722	55	7th	35	10th	52·9	39·4	45·8	+ 1·1	5	0·50	13	+ 2	Shaftesbury	•	•	•	•	•	46·1	•	43·7	•
a Arlington	613	52	6th	36	9th	50·7	40·1	45·2	+ 0·5	6	0·80	20	+ 3										
a Newquay	190	53	11th	33	6th	51·1	42·6	46·7	- 0·1	5	0·57	14	+ 3	Newquay	4·5	- 1·3	34	1	30	48·3	•	46·4	•
a Cullompton	202	58	11,12	32	9th	56·0	41·1	48·2	+ 1·9	7	0·46	12	0	Cullompton	3·0	- 2·2	23	3	28	46·1	•	•	•
a Portland Bill	19	57	6th	42	6,9	50·7	43·3	46·8	+ 0·7	6	0·41	11	+ 2	Weymouth	4·7	—	35	•	•	•	•	•	•
p Plymouth	116	56	10th	37	9th	54·0	43·4	48·5	+ 1·2	6	0·85	22	+ 10	Plymouth	3·0	- 2·8	23	0	31	47·0	-1·6	45·6	•
a Falmouth	167	56	6, 7, 12	38	9th	54·3	43·1	48·4	+ 1·5	6	0·89	23	+ 9	Falmouth	4·4	- 1·7	33	0	32	49·8	•	47·7	•
9. IRELAND, N.																							
a West — *a* Malin Head	208	52	10th	38	9th	50·4	40·9	45·4	+ 1·1	6	0·75	19	+ 9	Malin Head	4·6	—	34	•	•	•	•	•	•
a West — *a* Blacksod Point	327	51	10, 12	36	9th	49·6	41·1	45·2	- 0·6	7	1·10	28	+ 13	Markree Castle	3·6	- 1·5	26	2	29	45·8	-1·3	43·5	-2·1
a West — *p* Markree Castle	122	59	9th	34	8th	54·4	40·6	47·2	+ 2·6	7	1·03	26	+ 12										
b, East — *p* Armagh	196	59	11th	35	9th	54·7	40·9	47·5	+ 3·0	6	0·36	9	- 2	Armagh	4·7	- 0·3	35	0	31	44·8	-0·9	43·0	-2·0
b, East — *a* Donaghadee	101	59	10, 11	35	10th	55·3	40·0	47·3	+ 2·6	6	0·36	9	- 2										
10. IRELAND, S.																							
p Dublin, City	47	59	11th	38	9th	55·3	43·1	48·9	+ 2·4	4	0·23	6	- 4	Trinity Coll.	•	•	•	3	28	46·5	0·0	44·5	-1·6
a Birr Castle	175	57	11th	34	8, 9	53·4	40·7	46·8	+ 1·9	7	0·75	19	+ 8	Phœnix Park	5·5	- 0·1	41	3	25	•	•	•	•
a Kilkenny	212	60	10, 11	33	8th	54·9	42·1	48·2	+ 2·8	5	0·55	14	+ 3	Dublin City	•	•	•	0	35	•	•	•	•
a Waterford	120	60	11th	34	8th	55·3	41·7	48·2	+ 1·9	4	0·39	10	- 3	Birr Castle	4·1	- 1·1	31	2	28	•	•	•	•
p Seskin, Carrick-on-Suir	541	61	10th	35	8, 9	54·3	40·3	47·0	[illegible]	5	0·61	16	—	Seskin	4·9	—	37	2	29	•	•	•	•
a Cahir	199	62	10th	31	8th	55·1	41·1	47·8	+ 2·3	6	0·60	15											
a Foynes	50	58	10, 11	36	9th	54·1	43·0	48·3	+ 1·9	5	0·40	10	- 3										
a Cahirciveen (Val. Obs.)	30	54	6th	38	8th	50·7	43·9	47·1	+ 0·2	6	0·68	17	- 2	Cahirciveen	3·6	- 1·8	27	0	34	•	•	•	•
a Killarney	174	62	10th	37	9th	56·1	43·4	49·5	+ 3·1	7	0·91	23	+ 6	Ballinacurra	4·0	- 1·7	30	•	•	•	•	•	•
a Roche's Point	32	56	10, 11	37	8th	52·6	42·6	47·4	+ 0·9	7	0·44	11	- 3										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's	131	54	6,12	43	6,9	52·7	45·1	48·7	+ 0·9	5	0·49	12	+ 2	Scilly	4·7	- 1·2	35	•	•	•	•	•	•
a Jersey, St. Aubins	25	53	6, 8, 11	35	7th	52·3	41·4	46·6	- 1·6	6	0·67	17	+ 7	St. Heliers	2·8	- 3·6	21	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	55	7th	37	7th	52·6	44·0	48·1	- 0·2	5	0·76	19	+ 8	Guernsey†	4·4	- 1·9	33	0	35	47·3	-1·5	46·0	-2·1

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, April 12th, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Height. Above Ground.	Height. Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	More than 17 m/s or 39 mi/hr. Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	11 to 17 m/s. 25 to 38 mi/hr. Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
0. SCOTLAND, N.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
Deerness (Cup Anr.)**	188	16	5	—	—	5, 11	20	76	59	13	0	236	15	11	23	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	9	126	33	0	191	7	11	12	17	11	18	15
Aberdeen	153	105	52	—	—	—	—	31	103	34	0	225	10	11	17	19	11	17	25
Edinburgh	485	39	31	—	—	10, 11	25	133	10	0	0	247	15	11	13	26	11	7	40
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	11	11	102	46	9	0	250	17	11	16	24	11	15	40
Paisley	188	81	15	—	—	—	—	72	95	1	0	270	10	11	14	23	11	13	45
7. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	22	110	36	0	225	10	11	6	19	11	11	55
South Shields	72	61	12	—	—	11	1	53	100	14	0	259	11	11	7	21	11	6	40
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.)	73	60	10	—	—	—	—	25	122	21	0	—	9	11	12	—	—	—	—
Gorleston	52	42	‡	—	—	—	—	27	119	22	0	—	8	11	14	16	12	16	15
Shoeburyness	103	90	‡	—	—	10	2	62	102	2	0	203	12	10	13	16	11	13	45
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	11	2	37	76	53	0	225	12	11	12	19	11	17	25
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	31	84	53	0	—	7	8	15	13	11	10	40
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Richmond (Kew Obs.)	82	65	22	—	—	—	—	—	52	116	0	214	5	11	13	10	11	17	30
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	40	117	11	0	203	10	11	15	17	11	14	5
Fleetwood (Cup Anr.)	109	44	—	—	—	11	1	93	74	0	0	203	12	11	5	—	—	—	—
Southport	80	62	48	—	—	9 to 12	27	136	5	0	0	225	15	11	5	20	11	4	55
Holyhead	60	40	‡	—	—	11	7	132	29	0	0	225	11	11	14	18	11	3	55
8. ENGLAND, S.W.																			
Pendennis Castle§	256	65	24	—	—	10 to 12	28	73	59	8	0	247	18	11	11	22	11	11	5
Plymouth	185	88	2	—	—	—	—	38	96	27	7	—	8	11	10	14	11	10	40
Lyme Regis	556	61	‡	—	—	—	—	30	52	85	1	—	10	10	22	15	10	22	35
10. IRELAND, S.																			
Kingstown (Cup Anr.)	49	27	—	—	—	10 to 12	20	81	66	1	0	236	13	11	13	—	—	—	—
Quilty	100	40	‡	—	—	10, 11	30	124	14	0	0	—	15	11	8	21	11	8	0
Cahirciveen (Val. Obs.)	98	41	‡	—	—	10, 11	15	106	30	2	15	235	14	11	6	22	11	6	0
Weaver Pt.	160	30	‡	—	—	10, 11	20	97	51	0	0	—	13	11	6	20	11	6	0
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. * Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FIFTEENTH WEEK of 1919—April 6th to April 12th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Mean Pressure at M.S.L.
	At any "D.-V." Station.		Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	Highest	Lowest	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	56	30	82·7	76·6	79·5	+ 1·1	27	+ 6	10	− 12	6	+ 1	2·09	53	+ 31	4·7	+0·4	34	999
Eastern.																			
1. SCOTLAND, EAST ...	63	28	84·7	76·4	80·4	+ 1·7	39	+ 11	11	− 12	3	− 1	0·22	6	− 7	4·7	+0·1	34	1002
2. ENGLAND, N.E.	60	31	85·4	77·8	81·4	+ 2·0	42	+ 13	4	− 11	3	− 1	0·14	4	− 6	3·7	−1·2	27	1008
3. ENGLAND, EAST ...	63	28	86·1	77·2	81·4	+ 1·3	47	+ 10	7	− 7	5	+ 2	0·30	8	− 2	3·1	−2·1	23	1011
4. MIDLAND COUNTIES ...	64	31	85·6	78·1	81·7	+ 1·6	43	+ 4	2	− 14	5	+ 2	0·28	7	− 3	3·1	−1·6	23	1011
5. ENGLAND, S.E.	60	31	85·6	77·8	81·4	+ 0·7	42	+ 2	4	− 6	4	+ 1	0·45	12	+ 3	3·0	−2·3	22	1012
Western.																			
6. SCOTLAND, WEST ...	58	31	84·1	78·1	80·9	+ 1·3	33	+ 2	3	− 12	6	+ 2	0·97	25	+ 9	4·3	−0·6	32	1005
7. ENGLAND, N.W.	60	35	84·3	78·8	81·4	+ 1·5	37	+ 5	0	− 12	5	+ 2	0·39	10	− 2	3·9	−1·1	29	1009
8. ENGLAND, S.W.	58	32	84·5	78·4	81·3	+ 0·6	36	− 2	1	− 7	6	+ 3	0·59	15	+ 2	4·1	−1·4	31	1013
9. IRELAND, NORTH ...	59	34	84·7	77·9	81·1	+ 1·0	38	+ 4	4	− 7	7	+ 3	0·73	18	+ 5	4·2	−0·9	31	1005
10. IRELAND, SOUTH ...	62	31	85·3	78·8	81·9	+ 1·1	42	+ 2	0	− 8	6	+ 2	0·55	14	0	4·3	−1·2	32	1011
11. ENGLISH CHANNEL ...	55	35	84·4	79·4	81·8	− 0·1	41	− 3	0	− 1	5	+ 2	0·64	16	+ 6	4·0	−2·3	30	1015

THE SEASON (Spring).—Aggregates, &c., for the Period of 6 Weeks, March 2nd to April 12th, 1919.

0. SCOTLAND, NORTH ...	56	18	79·2	73·2	76·1	− 1·4	37	− 54	218	+ 55	32	+ 3	6·23	158	+ 16	4·3	+0·7	35	1007
Eastern.																			
1. SCOTLAND, EAST ...	63	11	79·4	72·5	75·9	− 1·8	51	− 65	251	+ 70	22	− 3	2·51	65	− 15	3·7	−0·3	30	1008
2. ENGLAND, N.E.	60	19	80·7	74·1	77·3	− 1·1	76	− 58	176	+ 40	22	− 1	2·87	73	+ 15	3·3	−1·1	27	1009
3. ENGLAND, EAST ...	63	21	81·4	74·3	77·7	− 1·1	102	− 66	158	+ 20	24	+ 4	2·56	66	+ 10	3·3	−1·2	27	1011
4. MIDLAND COUNTIES ...	64	22	81·0	74·0	77·4	− 1·4	86	− 90	182	+ 34	24	+ 4	4·63	117	+ 56	3·2	−0·8	26	1011
5. ENGLAND, S.E.	61	24	81·9	75·1	78·3	− 1·1	120	− 58	126	+ 23	25	+ 5	4·36	110	+ 48	3·4	−1·1	28	1011
Western.																			
6. SCOTLAND, WEST ...	58	20	80·4	73·8	77·0	− 1·5	65	− 62	192	+ 66	25	0	5·05	128	+ 13	3·9	−0·2	31	1010
7. ENGLAND, N.W.	60	19	80·2	74·5	77·3	− 1·5	64	− 73	164	+ 51	23	+ 1	5·15	132	+ 51	3·4	−0·8	27	1011
8. ENGLAND, S.W.	59	21	81·5	75·1	78·2	− 1·3	101	− 71	133	+ 46	28	+ 6	5·82	148	+ 55	4·2	−0·3	35	1012
9. IRELAND, NORTH ...	59	22	81·2	74·2	77·6	− 1·5	88	− 61	169	+ 63	31	+ 4	3·94	99	+ 5	3·5	−0·5	28	1010
10. IRELAND, SOUTH ...	62	24	81·9	75·1	78·4	− 1·5	111	− 78	143	+ 62	31	+ 7	3·52	90	− 9	3·7	−0·8	31	1013
11. ENGLISH CHANNEL ...	56	31	82·7	77·5	80·0	− 0·9	158	− 51	53	+ 26	31	+ 7	5·75	145	+ 68	4·5	−0·8	37	1013

THE YEAR 1919.—Aggregates, &c., for the Period of 15 Weeks, December 29th, 1918, to April 12th, 1919.

0. SCOTLAND, NORTH ...	56	11	78·2	72·8	75·5	− 1·3	41	−109	626	+ 143	68	− 7	12·22	311	−106	2·7	+0·4	27	1007
Eastern.																			
1. SCOTLAND, EAST ...	63	5	78·0	72·1	75·0	− 1·6	51	−128	719	+ 164	59	− 2	8·18	210	+ 3	2·4	−0·4	25	1007
2. ENGLAND, N.E.	60	11	79·0	73·5	76·2	− 1·1	86	−130	541	+ 100	64	+ 7	8·73	223	+ 76	2·2	−0·9	22	1008
3. ENGLAND, EAST ...	63	10	79·5	73·5	76·5	− 1·0	137	−122	547	+ 82	64	+ 9	8·24	211	+ 66	2·2	−0·9	21	1009
4. MIDLAND COUNTIES ...	64	9	79·1	73·2	76·1	− 1·4	109	−168	593	+ 109	61	+ 6	10·86	275	+108	2·2	−0·6	22	1009
5. ENGLAND, S.E.	61	16	80·1	74·5	77·3	− 0·9	203	− 92	428	+ 65	67	+13	11·46	290	+114	2·3	−0·8	23	1009
Western.																			
6. SCOTLAND, WEST ...	58	14	79·2	73·7	76·4	− 1·3	82	−131	507	+ 122	61	− 6	11·94	303	− 37	2·5	−0·2	25	1008
7. ENGLAND, N.W.	60	16	79·1	74·1	76·6	− 1·3	85	−144	471	+ 108	62	+ 3	10·21	259	+ 30	2·4	−0·4	24	1008
8. ENGLAND, S.W.	59	15	80·2	74·8	77·5	− 1·1	183	−133	387	+ 99	71	+11	15·67	399	+129	3·0	−0·1	29	1009
9. IRELAND, NORTH ...	59	22	80·2	74·4	77·3	− 1·0	145	−128	413	+ 92	72	+ 1	9·61	242	− 24	2·8	+0·1	27	1007
10. IRELAND, SOUTH ...	62	22	81·0	75·1	78·1	− 1·0	221	−150	350	+ 101	72	+ 7	10·97	280	− 11	2·9	−0·2	29	1008
11. ENGLISH CHANNEL ...	56	26	81·8	77·3	79·6	− 0·6	326	−100	137	+ 32	79	+13	17·43	441	+214	3·1	−0·6	29	1010
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: COL. H. G. LYONS, R.E., F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: April 17th, 1919.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) No. 16.

THE SIXTEENTH WEEK OF 1919.

SUNDAY, APRIL 13TH, TO SATURDAY, APRIL 19TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

The general character of the weather underwent a great change during the week from unsettled and showery, with strong northerly winds and low temperature, to fine and warm, with light south-westerly breezes. A depression moved across the British Isles during the first few days, while late in the week a large anticyclone spreading up from the Azores region became the dominating factor. Daily maximum temperatures were quite low until Wednesday or Thursday, not exceeding 280 a. at many places in Scotland and Northern and Eastern England, and remaining as low as 278 a. at Balmoral and Buxton. On Friday, however, there was a sudden outburst of warmth, and readings of 292 a. and above were recorded either on Friday or Saturday over all the southern, eastern and north-eastern parts of Great Britain, the highest values reached being 295 a. at Aberdeen, Crathes, Southampton, Weymouth, Plymouth and London. The mean temperature for the week was in excess of the normal in all Districts, the greatest divergence being about 1 a. over eastern Britain, and the smallest less than 0·5 a. in the western Districts. Rain fell on six days in Scotland North and West, but on three only in England South-West; the total fall exceeded the normal in all excepting the Irish Districts. Amounts of 20mm. and more in a day were recorded during the earlier part of the week at Beddgelert, at Clifton (Bristol), and at Southampton, as well as over the eastern half of Scotland; hail and sleet occurred in the north and thunderstorms in southern and eastern England. Solar halos were observed at Oxford on the 13th and 14th, at Tenbury on the 13th and at Clacton on the 17th, and lunar halos at Glasgow and in many parts of England on the 13th.

Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

Wind Component from	Scotland, N.*		Edinburgh.		England, E.		London.		North Wales.		England, S.W.		Dublin.		Ireland, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	19	5·1	10	3·7	—	—	10	4·7	16	4·6	2	5·0	12	3·6	16	4·1
North	9	4·0	12	4·2	—	—	13	2·4	10	8·1	19	6·3	11	5·0	10	6·2
West	18	5·8	20	6·9	—	—	22	3·9	25	4·9	24	9·6	22	7·0	23	5·8
East	9	4·6	6	3·4	—	—	1	0·8	1	3·8	4	1·9	3	1·8	2	1·0
Calm	0	—	0	—	—	—	3	—	2	—	0	—	1	—	2	—

* For Scotland N. (Deerness) the week ends at midnight on Friday.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Moderate	Unusual	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Heavy	Very heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Moderate	Moderate	Moderate
	Sunshine ...	Moderate	Scanty	Scanty	Scanty	Scanty	Moderate	Scanty	Scanty	Moderate	Scanty	Scanty	Moderate

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SPRING. 7 weeks from March 2nd, 1919.	Warmth ...	1, 2, 4	1, 2, 4	2, 2, 3	1, 3, 3	0, 4, 3	1, 3, 3	1, 2, 4	1, 3, 3	0, 4, 3	0, 2, 5	0, 2, 5	0, 4, 3
	Rainfall ...	4, 1, 2	3, 3, 1	4, 0, 3	2, 4, 1	4, 2, 1	3, 3, 1	3, 3, 1	4, 3, 0	4, 2, 1	1, 6, 0	0, 6, 1	4, 3, 0
	Sunshine ...	3, 4, 0	2, 2, 3	0, 2, 5	1, 1, 5	1, 1, 5	1, 2, 4	1, 3, 3	1, 3, 3	2, 4, 1	0, 4, 3	0, 4, 3	1, 3, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(22861—19.) Wt. 162—833/512. 625. 4/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

['TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.	
						Of Daily Max.	Of Daily Min.	Daily Mean.										Ground Frosts.	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																							
a, Islands	*a* Lerwick	54	49	16, 18	33	17th	46·9	38·3	42·4	+ 0·9	6	1·15	29	+ 17									
	a Houton Bay, Orkney	520	50	18, 19	32	14th	46·0	37·0	41·3	—	5	0·59	15	+ 4	Houton Bay	3·2	- 2·0	22	2	28	•	•	•	•
	a Stornoway	51	53	17, 18	35	14th	49·1	41·4	45·1	+ 1·6	6	1·10	28	+ 12	Stornoway	4·3	- 1·2	30	•	•	•	•	•	•
	a Castlebay, Barra I.	37	50	19th	37	13th	47·7	42·4	44·9	—	5	0·28	7	—	Castlebay	4·2	—	29	•	•	•	•	•	•
b, Mainland	*a* Wick	81	61	18th	34	14th	50·4	38·7	44·3	+ 1·2	5	0·41	10	- 1										
	a Strathpeffer	125	60	18th	28	14th	51·6	39·1	45·1	+ 0·9	4	0·94	23	+ 12										
	p Glencarron	500	49	17, 18	31	14th	46·1	35·7	40·7	- 3·1	6	2·69	68	+ 38										
	a Fort Augustus	68	—	—	—	—	—	—	—	—	—	—	—	—										
	p Fort William	171	53	19th	34	13th	49·0	38·6	43·6	- 1·5	7	1·47	37	+ 14										
1. SCOTLAND, E.																							
	a Nairn	82	62	18th	29	14th	51·1	37·4	43·9	- 0·1	6	0·72	18	+ 10	Nairn	3·2	—	22	•	•	•	•	•	•
	p Gordon Castle	101	66	18th	33	14th	51·7	38·3	44·7	+ 0·4	5	1·52	39	+ 30	Gordon Castle	2·9	—	20	•	•	•	•	•	•
	a Aberdeen	46	71	18th	34	13th	55·3	39·3	46·9	+ 3·1	4	0·95	24	+ 14	Aberdeen	3·6	- 2·0	25	2	26	•	•	41·3	-1·4
	a Balmoral	930	61	18th	31	17th	48·6	37·7	42·9	+ 2·0	4	1·17	30	+ 19	Balmoral	•	•	•	2	26	•	•	•	•
	p Crieff	432	63	18th	32	13th	51·3	36·6	43·6	- 1·2	3	0·44	11	0	Crathes	3·3	- 1·8	23	3	25	42·9	-1·0	40·3	-2·1
	a Dundee	244	62	18th	32	14th	52·4	38·1	44·9	+ 0·6	4	1·17	30	+ 21	Dundee	4·2	—	30	3	28	42·9	•	•	•
	a Leith	30	61	18th	36	13th	51·7	40·4	45·8	+ 0·3	6	0·93	24	+ 17	Leith	—	—	—	0	33	•	•	•	•
	p Edinburgh	441	59	18th	33	14th	50·3	38·9	44·3	+ 0·3	4	1·64	42	+ 35	Edinburgh	2·0	- 3·0	14	1	30	•	•	•	•
	a West Linton	769	56	18th	32	16th	48·3	35·3	41·5	+ 0·1	3	1·97	50	—	West Linton	1·7	—	12	2	28	•	•	•	•
	p Marchmont	498	62	18th	31	14th	53·7	36·9	44·9	+ 1·5	3	0·50	13	+ 2	Marchmont	3·2	- 1·9	23	•	•	•	•	•	•
6. a. SCOTLAND, W.																							
	a Ford (Argyll)	149	53	19th	34	14th	49·1	40·1	44·4	—	7	1·59	41	—	Ford (Argyll)	•	•	•	1	27	43·5	—	41·4	—
	p Glasgow Observatory	180	60	18th	37	13, 14	50·9	41·6	46·0	+ 0·8	5	0·48	12	0	Glasgow	3·3	- 1·0	23	0	33	•	•	•	•
	p Rothesay	200	60	18th	35	14th	50·6	40·1	45·1	- 0·5	6	0·62	16	0	Rothesay	2·4	—	17	1	30	44·4	•	43·6	-1·1
	a Kilmarnock	90	60	18th	37	13, 14	52·1	41·6	46·6	+ 2·1	6	0·52	13	+ 1	Kilmarnock	2·6	—	18	•	•	44·4	•	42·1	—
	a Colmonell	170	62	18th	36	14th	53·4	40·7	46·8	+ 2·0	4	0·86	22	+ 9	Colmonell	•	•	•	0	33	•	•	•	•
	p Cally, Gatehouse	120	60	18th	36	14th	52·1	40·7	46·1	+ 1·4	7	1·43	36	+ 20	Dumfries	3·1	—	22	2	28	43·9	-2·1	42·0	-2·9
	p Dumfries	160	62	18th	35	13th	53·0	40·1	46·2	+ 0·7	4	0·90	23	+ 11	Eskdalemuir	2·1	—	15	2	27	•	•	•	•
	a Eskdalemuir	794	62	18th	32	14th	50·9	36·0	43·1	—	5	1·38	35	—										
b, I. OF MAN	*p* Douglas	277	60	18th	39	13, 15	51·9	41·9	46·7	+ 1·3	5	0·44	11	- 2	Douglas	2·8	- 3·3	20	0	34	•	•	•	•
2. ENGLAND, N.E																							
a North	*a* Alnwick Castle	210	65	19th	32	17th	54·0	38·1	45·7	+ 1·8	6	0·69	17	+ 7										
	a Tynemouth	71	65	19th	36	13th	54·0	39·7	46·5	+ 2·4	4	0·51	13	+ 5	Cockle Park	3·7	- 1·1	26	2	29	42·6	-1·5	41·9	-1·6
	p Durham	336	66	18th	33	17th	53·9	38·3	45·7	+ 1·6	6	0·56	14	+ 6	Durham	2·9	- 1·7	21	2	25	•	•	•	•
	p Rounton	249	68	18th	34	13, 17	53·7	39·0	46·0	+ 2·1	6	0·76	19	+ 10	Rounton	•	•	•	4	25	43·6	•	•	•
	a West Witton	605	62	18th	36	17th	53·6	38·7	45·8	—	5	0·87	22	—	West Witton	•	•	•	2	29	43·2	•	39·2	•
	p Scarborough	100	65	18, 19	38	14, 15	56·1	42·3	48·9	+ 3·9	6	0·56	14	+ 6	Scarborough†	4·0	- 1·2	29	•	•	•	•	39·8	•
	p York	56	63	18th	36	13th	54·4	41·6	47·7	+ 1·6	3	0·31	8	- 1	York	2·7	- 1·9	19	—	—	44·0	-1·8	42·7	-1·7
b, South	*a* Spurn Head	26	58	18, 19	38	13–15	51·3	40·0	45·4	+ 0·3	2	0·52	13	+ 7	Spurn Head	3·0	—	21	•	•	•	•	•	•
	a Lincoln	58	68	18th	36	13th	56·3	40·6	48·1	+ 1·6	3	0·56	14	+ 7	Lincoln	•	•	•	1	30	44·5	-1·6	42·6	-1·9
	a Fulbeck	180	69	18th	36	17th	55·9	40·3	47·7	+ 1·4	4	0·50	13	+ 5	Fulbeck*	3·2	- 2·2	23	•	•	—	—	—	—
															Skegness	4·1	- 1·6	29						
3. ENGLAND, E.																							
	p Cromer	196	62	18th	37	13, 14	54·0	39·9	46·6	+ 1·4	6	0·48	12	+ 7	Cromer	3·5	- 2·2	25	•	•	•	•	•	•
	a Little Massingham	280	64	18th	24	13, 14	55·0	38·0	46·1	+ 0·5	4	0·88	22	+ 15	Lit. Massingham	4·3	- 1·2	31	•	•	•	•	•	•
	a Yarmouth	13	60	18th	37	16th	52·9	40·6	46·5	+ 1·6	5	0·59	15	+ 8	Yarmouth	3·9	—	28	0	35	46·9	-1·8	45·0	-2·6
	a Norwich	93	67	18th	38	13th	56·1	41·3	48·3	+ 2·4	5	0·91	23	+ 16	Norwich	4·0	—	29	0	32	45·7	•	•	•
	a Geldeston	37	66	19th	36	13th	56·4	39·4	47·5	+ 2·0	5	0·69	18	+ 12	Geldeston	3·6	- 2·1	26	•	•	•	•	•	•
	p Cambridge	41	70	18th	30	15th	57·1	38·4	47·3	+ 0·9	5	0·33	9	+ 3	Cambridge	5·1	- 0·5	37	0	31	46·5	-1·5	44·5	-2·3
	a Clacton-on-Sea	54	58	18, 19	39	17th	53·3	42·1	47·4	+ 1·9	5	0·63	16	+ 10	Clacton	4·5	- 1·7	32	0	35	47·3	-0·4	46·1	-1·4
	a Rothamsted	424	64	18, 19	35	13th	54·7	40·3	47·2	+ 1·7	4	1·00	25	+ 18	Rothamsted	5·2	- 0·1	37	1	28	44·5	•	•	•
	p Tottenham	51	68	19th	40	17th	57·3	44·0	50·3	—	5	0·76	19	—	Tottenham	4·3	—	31	0	38	•	•	44·8	-2·0
4. MIDLAND COUNTIES.																							
a North	*a* Harrogate	479	60	18th	34	13th	52·7	38·3	45·2	+ 1·1	5	0·70	18	+ 10	Harrogate	3·6	- 1·6	26	2	27	42·8	-1·2	42·3	-1·5
	p Sheffield	429	66	18th	37	13th	54·0	41·4	47·4	—	5	0·64	16	—	Sheffield	3·8	- 0·9	27	1	29	43·4	-1·4	41·2	-2·1
	p Buxton	987	57	18, 19	35	13, 15, 17	49·9	38·9	44·1	—	5	1·06	27	+ 14	Buxton	2·7	—	19	2	30	42·0	-2·9	40·0	-3·0
b, East	*a* Bawtry	65	64	18th	35	13th	55·1	40·3	47·3	+ 1·2	4	0·60	15	+ 8	Worksop	2·6	- 2·0	19	2	24	44·7	—	43·0	—
	a Nottingham	82	68	18th	35	13th	55·6	40·1	47·5	+ 1·5	5	0·41	10	+ 3	Nottingham	3·2	- 1·8	23	2	28	45·1	-1·0	41·3	-2·5
	p Birmingham, Edgbsn.	535	64	18, 19	36	13, 17	53·9	40·9	47·1	+ 1·3	3	0·67	17	+ 9	Birmingham	3·1	- 0·9	22	1	30	42·9	-1·5	42·7	-1·9
	a Raunds	203	70	18th	36	13, 17	56·7	40·3	48·1	+ 1·8	5	0·44	11	+ 4	Raunds	4·0	—	29	2	28	44·7	•	43·0	•
	p Oxford	208	68	19th	37	17th	56·1	41·9	48·7	+ 1·7	3	0·56	14	+ 7	Oxford	4·2	- 1·0	30	1	30	•	•	•	•
															Malvern	4·0	—	29	0	31	45·5	—	43·6	—
c, West	*a* Cheadle (N. Staffs.)	646	63	18th	34	17th	54·0	39·3	46·3	+ 1·6	5	1·01	26	+ 17	Cheadle	•	•	•	1	30	•	•	•	•
	p Tenbury	313	69	18th	31	17th	55·3	40·4	47·5	+ 1·6	4	0·55	14	+ 7	Tenbury	•	•	•	1	26	45·3	•	•	•
	p Ross-on-Wye	201	69	18, 19	33	17th	57·0	40·6	48·4	+ 1·4	3	0·37	10	+ 2	Ross-on-Wye	4·8	—	35	1	28	—	—	•	•
	a Clifton	226	68	19th	37	17th	54·6	41·6	47·8	0·0	4	1·18	30	+ 18	Clifton	6·0	—	43	0	32	•	•	•	•
5. ENGLAND, S.E.																							
															Worthing	5·8	- 0·4	42	0	35	48·0	-1·0	45·8	-1·6
	a Marlborough	424	67	19th	30	17th	55·9	37·6	46·3	+ 1·1	4	1·20	31	+ 21	Marlborough	4·7	- 0·2	34	2	22	46·9	—	46·3	—
	p Salisbury (Wilton)	180	70	18th	33	17th	56·9	39·8	47·9	+ 1·4	3	1·20	30	+ 19	Salisbury	•	•	•	0	31	47·8	•	•	•
	a Wisley, Surrey	150	68	19th	37	17th	57·3	42·1	49·3	+ 2·7	4	0·78	20	+ 13	Wisley	5·1	- 0·3	37	2	27	46·2	- ·0	44·2	-2·0
	a Tunbridge Wells	354	68	19th	37	17th	56·9	41·1	48·6	+ 2·1	4	0·87	22	+ 13	Tunbridge Wells	3·7	- 2·0	27	1	29	46·4	-0·8	44·5	—
	a Margate	51	58	18th	41	15th	53·4	43·6	48·3	+ 1·5	5	0·66	17	+ 10	Margate	3·8	- 1·9	27	0	38	47·9	+0·6	45·8	-0·6
	a Dungeness	21	57	17, 19	39	13th	52·9	41·1	46·7	+ 0·7	5	0·91	23	+ 16	Folkestone	3·8	—	27	•	•	•	•	44·0	—
	p St. Leonards	178	67	19th	38	17th	54·9	42·9	48·6	+ 1·8	5	0·67	17	+ 9	St. Leonards	5·1	- 1·1	37	0	34	47·7	•	45·9	—
	p Southampton	64	71	19th	35	17th	57·9	41·7	49·4	+ 1·1	3	1·21	31	+ 22	Southampton	5·6	- 0·3	40	2	22	•	•	•	•
	a Ventnor	59	66	19th	40	17th	55·7	43·9	49·5	+ 1·6	3	0·62	16	+ 8	Ventnor	5·8	- 0·3	42	•	•	•	•	•	•
LONDON.	*a* Richmond (Kew Obs.)	18	67	18, 19	39	17th	56·6	42·2	49·1	+ 2·0	3	0·58	15	+ 8	Richmond	4·2	- 1·1	30	1	30	46·9	-0·5	44·4	-2·0
	a Westminster	27	69	19th	39	17th	57·7	44·5	50·8	+ 2·8	5	0·77	20	+ 13	Westminster	3·8	- 0·6	27	0	33	•	•	•	•
	ag Greenwich	149	70	19th	39	13, 17	58·6	43·1	50·5	+ 3·2	5	0·67	17	+ 9	Greenwich	4·0	- 1·0	29	0	31	•	•	•	•
	a Hampstead	450	67	18, 19	33	13th	55·6	41·3	48·1	—	5	0·95	24	—	Hampstead	4·3	—	31	1	30	•	•	•	•
	ag Camden Square	110	71	19th	38	17th	59·3	42·7	50·6	+ 2·2	5	0·97	25	+ 17	Camden Square	4·0	- 0·7	29	0	35	•	•	•	•
7. a, ENGLAND, N.W.																							
	p Aspatria (Mealsgate)	487	57	18th	35	17th	49·7	39·7	44·5	- 0·3	4	0·65	17	+ 6	Aspatria	2·2	- 3·2	16	0	31	43·4	-3·6	42·3	-2·7
	p Newton Rigg	559	63	18, 19	35	17th	53·0	39·9	46·1	+ 2·2	5	0·65	17	+ 7	Newton Rigg	3·5	- 1·9	25	1	29	43·7	-1·7	41·4	-1·9
	p Stonyhurst	375	59	19th	37	13, 17	50·6	40·4	45·3	+ 0·4	5	1·13	29	+ 16	Stonyhurst	2·1	- 3·1	15	1	30	•	•	•	•
	p Blackpool	66	55	18, 19	38	15th	51·0	41·4	46·0	+ 0·5	5	0·69	18	+ 9	Blackpool	2·7	- 3·4	19	3	26	45·9	—	43·8	—
	a Southport	37	55	19th	40	14, 15	51·1	41·9	46·3	+ 0·5	5	0·58	15	+ 6	Southport	2·8	- 3·2	20	0	31	46·8	-1·0	44·9	-1·3
															Hoylake	4·0	- 1·7	29	•	•	•	•	•	•
	a Liverpool (Bidston)	188	57	19th	38	13th	51·6	41·3	46·2	- 0·2	4	0·31	8	0	Liverpool	4·2	—	30	1	30	•	•	•	•
	a Hawarden Bridge	22	62	18th	38	16th	53·3	41·3	47·0	- 0·1	3	0·55	14	+ 7	Manchester (City)	3·0	- 1·5	21	0	37	44·3	-0·7	42·8	-2·3
	p Manchester (Whit. Pk.)	125	60	18, 19	37	13th	53·4	40·9	46·9	0·0	5	0·70	18	+ 9	Whitworth Park	2·4	- 1·8	17	•	•	•	•	•	•
b, NORTH WALES.																							
	p Llandudno	16	59	18th	33	14th	51·7	41·1	46·2	- 0·7	4	0·39	10	+ 1	Llandudno	4·0	- 2·1	29	•	•	•	•	•	•
	a Holyhead	15	58	19th	40	17th	51·7	41·9	46·6	+ 0·3	4	0·40	10	0	Holyhead	3·8	—	27	1	30	•	•	•	•
	a Beddgelert	309	61	19th	36	17th	51·4	39·3	45·1	—	5	2·86	73	—	Aberdovey	—	—	—	•	•	•	•	•	•
	a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date,	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%		° F.	°F.	°F.	°F.	°F.
8. *a.* SOUTH WALES.																						
a Aberystwyth	59	50	18, 19	37	17th	48·0	40·3	44·0	—	4	0·60	15	—	Aberystwyth ..	2·6	- 2·9	19	•	•	•	•	•
a Rhayader	757	63	19th	34	13th	51·7	37·1	44·1	—	4	1·45	37	—	Rhayader ..	4·9	—	35	2	28	•	•	•
a St. Ann's Head ..	149	63	19th	39	19th	51·0	42·4	46·5	+ 0·4	4	0·26	7	- 3	St. Ann's Head	5·1	- 0·9	37	•	•	•	•	•
p Cardiff	202	68	19th	35	16, 17	53·7	38·6	45·8	- 0·7	3	0·80	20	+ 8	Cardiff	5·6	—	40	1	26	46·0	0·0	44·4	-1·7
b, ENGLAND, S.W.																						
a Bath	66	69	19th	33	17th	56·4	41·1	48·4	+ 1·4	3	0·87	22	+ 12	Bath	•	•	•	•	•	47·2	-0·9	45·2	-1·7
a Shaftesbury	722	62	19th	35	17th	54·3	38·6	46·1	+ 0·5	2	0·76	19	+ 9	Shaftesbury ..	•	•	•	•	•	45·9	•	45·2	•
a Arlington	813	64	19th	36	17th	52·4	39·7	45·8	+ 0·3	3	0·75	19	+ 4										
a Newquay	190	54	18th	42	15th	51·6	43·6	47·4	- 0·1	4	0·77	20	+ 11	Newquay ..	3·7	- 2·2	27	0	38	49·8	•	47·5	•
a Cullompton	202	69	19th	34	17th	57·3	40·1	48·3	+ 1·2	3	1·30	33	+ 22	Cullompton ..	6·1	+ 0·8	44	2	26	47·7	•	•	•
a Portland Bill	19	62	19th	36	15th	52·0	42·3	46·9	0·0	3	0·39	10	+ 2	Weymouth ..	6·5	—	47	•	•	•	•	•	•
p Plymouth	116	71	19th	39	15th	57·0	42·4	49·4	+ 1·3	3	1·25	32	+ 21	Plymouth ..	6·2	+ 0·3	45	0	33	48·2	-1·7	47·1	•
a Falmouth	167	64	19th	39	13th	55·0	41·9	48·1	+ 0·5	3	0·74	19	+ 7	Falmouth ..	6·4	+ 0·2	47	1	30	50·4	•	49·1	•
9. IRELAND, N.																						
a West .. { *a* Malin Head	208	53	18th	37	14th	48·6	41·4	44·8	- 0·8	7	0·42	11	0	Malin Head ..	4·2	—	30	•	•	•	•	•	•
a Blacksod Point ..	327	53	17, 18	36	13, 14	49·7	40·6	44·9	- 2·2	6	0·62	16	0	Markree Castle	3·6	- 1·3	26	1	30	47·5	-1·2	44·6	-1·7
p Markree Castle ..	122	61	18th	35	13th	53·4	41·9	47·4	+ 1·5	6	0·61	15	0										
b, East .. { *p* Armagh	196	59	17, 18, 19	36	13th	54·9	40·6	47·4	+ 1·4	4	0·31	8	- 4	Armagh	4·0	- 0·8	29	0	31	45·9	-1·2	44·2	-1·6
a Donaghadee	101	61	18th	34	13th	53·7	40·7	46·9	+ 0·9	5	0·52	13	+ 1										
10. IRELAND, S.																						
p Dublin, City	47	63	19th	40	13, 14	55·9	44·1	49·7	+ 1·8	5	0·23	6	- 4	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
a Birr Castle	175	61	19th	36	13th	54·0	41·7	47·6	+ 1·3	3	0·47	12	+ 1	Phœnix Park ..	4·1	- 1·2	29	1	29	•	•	•	•
a Kilkenny	212	61	19th	36	13th	54·9	42·7	48·5	+ 1·7	3	0·54	14	+ 3	Dublin City ..	•	•	•	0	35	•	•	•	•
a Waterford	120	63	19th	37	13th	55·7	42·9	49·0	+ 1·3	3	0·14	4	- 9	Birr Castle ..	3·5	- 1·4	25	0	32	•	•	•	•
p Seskin, Carrick-on-Suir	541	61	19th	36	13th	54·3	40·7	47·2	—	4	0·61	16	—	Seskin	3·7	—	27	0	31	•	•	•	•
a Cahir	199	61	19th	36	13th	53·7	42·1	47·6	+ 0·7	4	0·56	14	—										
a Foynes	50	60	18, 19	37	13th	53·9	43·0	48·2	+ 0·4	4	0·33	8	- 5										
a Cahirciveen (Val. Obs.)	30	58	19th	40	14th	52·0	43·9	47·8	- 0·4	4	0·80	20	+ 2	Cahirciveen ..	3·9	- 1·2	28	0	38	•	•	•	•
a Killarney	174	62	19th	39	13th	55·6	42·9	49·0	+ 1·2	6	1·12	28	+ 11	Ballinacurra ..	3·9	- 1·5	28	•	•	•	•	•	•
a Roche's Point	32	59	19 h	40	15th	52·6	44·1	48·2	+ 0·4	4	0·42	11	- 3										
11. ENGLISH CHANNEL.																						
a Scilly, St. Mary's ..	131	56	18th	39	15th	53·0	44·4	48·5	+ 0·1	2	0·51	13	+ 4	Scilly	5·9	- 0·3	43	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	66	19th	43	16, 17	54·3	44·4	49·1	0·0	3	0·63	16	+ 6	St. Heliers ..	8·1	+ 1·5	59	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	63	19th	41	15th	54·0	44·9	49·2	+ 0·1	3	0·75	19	+ 9	Guernsey† ..	8·1	+ 1·5	59	0	36	48·5	-1·5	47·1	-1·7

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, April 19th, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	12 to 14, 16, 18	15	101	50	2	0	225	14	12	2	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	7	127	34	0	225	6	13	12	16	13	11	20
Aberdeen	153	105	52	—	—	—	—	34	94	40	0	326	9	19	14	16	19	15	35
Edinburgh	485	39	31	—	—	13, 17	4	124	40	0	0	270	12	17	21	19	17	20	45
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	13, 16, 19	8	88	57	15	0	230	12	13	9	18	13	13	20
Paisley	188	81	15	—	—	—	—	61	104	3	0	326	10	16	3	19	16	6	40
. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	36	74	48	10	146	10	14	10	18	16	5	45
South Shields	72	61	12	—	—	14	1	52	75	18	22	146	12	14	9	16	18	3	55
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	14	3	38	113	14	0	—	13	14	11	—	—	—	—
Gorleston	52	42	‡	14	2	14, 15	9	59	89	9	0	—	18	14	11	24	14	11	0
Shoeburyness	103	90	‡	14, 15	6	14, 15	20	76	34	0	32	180	20	14	8	25	15	1	20
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	14, 16	8	73	55	32	0	157	14	14	6	21	14	17	5
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	14, 15	15	62	73	18	0	—	14	14	24	24	14	23	45
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	35	103	29	1	24	8	16	13	17	14	6	45
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	16	117	35	0	293	8	15	23	14	13	18	45
Fleetwood (Cup Anr.) ..	109	44	—	15, 16	13	14 to 16	27	60	60	8	0	315	23	16	5	—	—	—	—
Southport	80	62	48	15, 16	16	13 to 17	35	78	31	8	0	315	21	16	5	27	16	1	35
Holyhead	60	40	‡	15, 16	11	14 to 16	23	77	49	8	0	315	19	16	3	24	16	4	0
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	14, 15	20	13 to 16	52	59	30	7	0	293	23	15	1	34	14	13	50
Plymouth	185	88	2	—	—	13 to 15	16	61	62	29	0	—	14	14	20	24	15	0	15
Lyme Regis	556	61	‡	—	—	14, 15	7	48	41	72	0	—	14	14	23	21	14	23	20
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	14 to 17	39	66	55	8	0	304	14	15	11	—	—	—	—
Quilty	100	40	‡	—	—	13 to 17	52	72	32	12	0	—	16	15	6	25	15	7	50
Cahirciveen (Val. Obs.)	98	41	‡	14	4	14, 15	22	86	27	13	16	260	18	14	12	33	14	22	25
Weaver Pt.	180	30	‡	14	1	13 to 16	39	55	58	7	8	—	18	14	13	28	14	12	50
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	14, 15	25	13 to 16	36	48	41	18	0	293	24	15	2	35	15	2	10

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory

* Above tops of trees.

** For Deerness the week end at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

SIXTEENTH WEEK of 1919—April 13th to April 19th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	61	28	82·4	76·7	79·4	0·0	25	− 3	10	− 7	6	+ 2	1·29	33	+ 16	3·8	−1·2	26	1005
Eastern.																			
1. SCOTLAND, EAST ...	71	29	83·8	76·2	79·8	+ 0·3	34	0	12	− 7	4	0	1·03	26	+ 16	3·3	−1·8	23	1005
2. ENGLAND, N.E.	69	32	85·4	77·4	81·3	+ 1·2	43	+ 9	6	− 6	4	+ 1	0·55	14	+ 6	3·4	−1·7	24	1006
3. ENGLAND, EAST ...	70	30	85·9	77·7	81·6	+ 0·9	45	+ 3	4	− 7	5	+ 2	0·70	18	+ 11	4·3	−1·3	31	1008
4. MIDLAND COUNTIES ...	70	31	85·8	77·7	81·6	+ 0·9	45	0	4	− 9	4	+ 1	0·65	17	+ 9	3·9	−1·1	28	1009
5. ENGLAND, S.E.	71	30	86·2	78·3	82·1	+ 0·8	46	+ 1	1	− 6	4	+ 1	0·88	22	+ 14	4·8	−1·0	34	1010
Western.																			
6. SCOTLAND, WEST ...	62	34	83·9	77·9	80·8	+ 0·5	33	− 4	3	− 8	6	+ 2	0·85	22	+ 7	3·1	−2·1	22	1006
7. ENGLAND, N.W.	63	33	84·0	77·9	80·8	+ 0·1	33	− 5	3	− 5	4	+ 1	0·60	16	+ 6	3·1	−2·4	22	1008
8. ENGLAND, S.W.	71	33	85·3	77·7	81·3	+ 0·1	41	− 2	4	− 2	3	0	0·86	22	+ 11	5·0	−0·6	36	1011
9. IRELAND, NORTH ...	61	34	84·3	78·1	81·1	+ 0·3	35	− 4	2	− 5	5	+ 1	0·49	12	− 1	3·8	−1·0	27	1008
10. IRELAND, SOUTH ...	63	36	85·4	79·1	82·1	+ 0·5	45	0	0	− 5	4	0	0·51	13	0	3·9	−1·3	28	1012
11. ENGLISH CHANNEL ...	66	39	85·1	80·0	82·4	0·0	48	0	0	0	3	0	0·63	16	+ 6	7·4	+0·8	54	1014

THE SEASON (Spring).—Aggregates, &c., for the Period of 7 Weeks, March 2nd to April 19th, 1919.

0. SCOTLAND, NORTH ...	61	18	79·7	73·7	76·6	− 1·2	62	− 57	228	+ 48	38	+ 5	7·52	191	+ 32	4·2	+0·4	33	1007
Eastern.																			
1. SCOTLAND, EAST ...	71	11	80·1	73·0	76·4	− 1·5	85	− 65	263	+ 63	26	− 3	3·54	91	+ 1	3·7	−0·5	29	1008
2. ENGLAND, N.E.	69	19	81·4	74·6	77·9	− 0·8	119	− 49	182	+ 34	26	0	3·42	87	+ 21	3·3	−1·2	26	1009
3. ENGLAND, EAST ...	70	21	82·0	74·8	78·3	− 0·8	147	− 63	162	+ 13	29	+ 6	3·26	84	+ 21	3·4	−1·2	27	1010
4. MIDLAND COUNTIES ...	70	22	81·7	74·6	78·0	− 1·1	131	− 90	186	+ 25	28	+ 5	5·28	134	+ 65	3·3	−0·9	27	1010
5. ENGLAND, S.E.	71	24	82·5	75·5	78·9	− 0·8	166	− 57	127	+ 17	29	+ 6	5·24	132	+ 62	3·6	−1·0	29	1011
Western.																			
6. SCOTLAND, WEST ...	62	20	80·9	74·4	77·5	− 1·3	98	− 66	195	+ 58	31	+ 2	5·90	150	+ 20	3·8	−0·5	30	1009
7. ENGLAND, N.W.	63	19	80·8	75·0	77·8	− 1·3	97	− 78	167	+ 46	27	+ 2	5·75	148	+ 57	3·3	−1·0	27	1010
8. ENGLAND, S.W.	71	21	82·1	75·4	78·6	− 1·1	142	− 73	137	+ 44	31	+ 6	6·68	170	+ 66	4·3	−0·4	35	1012
9. IRELAND, NORTH ...	61	22	81·6	74·8	78·1	− 1·2	123	− 65	171	+ 58	36	+ 5	4·39	110	+ 3	3·5	−0·6	28	1010
10. IRELAND, SOUTH ...	63	24	82·4	75·7	78·9	− 1·2	156	− 78	143	+ 57	35	+ 7	4·03	103	− 9	3·7	−0·9	30	1012
11. ENGLISH CHANNEL ...	66	31	83·1	77·8	80·4	− 0·7	206	− 51	53	+ 26	34	+ 7	6·38	161	+ 74	5·0	−0·5	40	1013

THE YEAR 1919.—Aggregates, &c., for the Period of 16 Weeks, December 29th, 1918, to April 19th, 1919.

0. SCOTLAND, NORTH ...	61	11	78·5	73·0	75·7	− 1·3	66	−112	636	+ 136	74	− 5	13·51	344	− 90	2·7	+0·3	27	1007
Eastern.																			
1. SCOTLAND, EAST ...	71	5	78·4	72·3	75·3	− 1·5	85	−128	731	+ 157	63	− 2	9·21	236	+ 19	2·5	−0·4	24	1007
2. ENGLAND, N.E.	69	11	79·4	73·8	76·6	− 0·9	129	−121	547	+ 94	68	+ 8	9·28	237	+ 82	2·3	−0·9	22	1008
3. ENGLAND, EAST ...	70	10	79·9	73·8	76·8	− 0·9	182	−119	551	+ 75	69	+11	8·94	229	+ 77	2·3	−1·0	22	1009
4. MIDLAND COUNTIES ...	70	9	79·5	73·5	76·5	− 1·2	154	−168	597	+ 100	65	+ 7	11·51	292	+117	2·3	−0·6	22	1009
5. ENGLAND, S.E.	71	16	80·5	74·7	77·6	− 0·8	249	− 91	429	+ 59	71	+14	12·34	312	+128	2·5	−0·8	23	1009
Western.																			
6. SCOTLAND. WEST ...	62	14	79·5	74·0	76·7	− 1·1	115	−135	510	+ 114	67	− 4	12·79	325	− 30	2·6	−0·2	25	1008
7. ENGLAND, N.W.	63	16	79·5	74·3	76·9	− 1·1	118	−149	474	+ 103	66	+ 4	10·81	275	+ 36	2·4	−0·6	24	1008
8. ENGLAND, S.W.	71	15	80·5	75·0	77·7	− 1·1	224	−135	391	+ 97	74	+11	16·53	421	+140	3·1	−0·2	30	1009
9. IRELAND, NORTH ...	61	22	80·5	74·7	77·5	− 1·0	180	−132	415	+ 87	77	+ 2	10·06	253	− 26	2·8	0·0	27	1007
10. IRELAND, SOUTH ...	63	22	81·3	75·4	78·3	− 1·0	266	−150	350	+ 96	76	+ 7	11·48	293	− 11	3·0	−0·2	29	1008
11. ENGLISH CHANNEL ...	66	26	82·0	77·5	79·8	− 0·6	374	−100	137	+ 32	82	+13	18·06	457	+220	3·4	−0·5	32	1010
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: COL. H. G. LYONS, R.E., F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: April 25th, 1919.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 65

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 17.

THE SEVENTEENTH WEEK OF 1919.

SUNDAY, APRIL 20TH, TO SATURDAY, APRIL 26TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

Until the middle of the week an anticyclone lay over the British Isles and the weather was mostly fine and dry but rather cool. After Wednesday the high pressure withdrew beyond our south-west coasts, and a depression from the Iceland region, which increased in intensity as it moved south-eastwards, passed over our islands to the Continent. Showers of rain, hail or snow prevailed over the Kingdom generally during the later days, with winds increasing to gale force from N.W. or N.; thunderstorms occurred over the southern half of England on Saturday. The mean temperature for the week was above the normal by 1 a. or 2 a. in all districts; the highest of the daily maxima, 289 a. and above, occurred very generally on the 22nd, the absolute highest being 291 a. at Crathes, York and Killarney. The lowest of the night minima occurred either on the 21st or 22nd, the screen thermometers recording 271 a. or below in most districts, 268 a. at Eskdalemuir and Rhayader, while on the grass readings as low as 264 a. at Eskdalemuir and Rounton and 265 a. at Blackpool, Rhayader and Wisley were registered. Rainfall was less than normal everywhere, the only heavy daily fall being about 20mm. at Beddgelert on the 26th. There was a marked difference between the amounts of bright sunshine in the eastern and western districts, the daily mean in England E. was only 3·1 hr. against 8·2 hr. in Ireland N. and 9 hr. in the English Channel district. At St. Mary's, Scilly, there was as much as 9·7 hr. per day. Aurora was witnessed in the north of Scotland on the 20th and solar halos were seen at Oxford on the 21st, 22nd, 23rd, 25th and 26th, at Tenbury on the 23rd and at Southport on the 21st. The Zodiacal Light was seen at Oxford on the 22nd.

Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.*		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	8	4·3	6	3·3	—	—	2	1·1	6	1·8	—	—	9	2·8	7	1·7
North	15	3·8	15	3·4	—	—	18	3·3	21	3·7		—	8	4·2	13	5·1
West	22	5·1	20	5·1	—	—	12	2·9	23	3·7	—	—	13	6·7	15	4·4
East	2	4·0	2	3·5	—	—	8	3·4	5	7·6	—	—	8	2·9	6	2·8
Calm	2	—	2	—	—	—	6	—	0	—	—	—	6	—	7	—

* For Scotland N. (Deerness) the week ends at midnight on Friday.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ... Warmth ...	Moderate	Moderate	Moderate	Deficient	Deficient	Deficient	Moderate	Deficient	Deficient	Moderate	Moderate	Deficient
Rainfall ...	Moderate	Moderate	Light	Moderate	Moderate	Moderate	Light	Moderate	Light	Moderate	Light	Light
Sunshine ...	Moderate	Moderate	Moderate	Scanty	Moderate	Scanty	Abundant	Abundant	Abundant	Very abundant	Abundant	Abundant

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SPRING. 8 weeks from March 2nd, 1919. Warmth ...	1, 3, 4	1, 3, 4	2, 3, 3	1, 3, 4	0, 4, 4	1, 3, 4	1, 3, 4	1, 3, 4	0, 4, 4	0, 3, 5	0, 3, 5	0, 4, 4
Rainfall ...	4, 2, 2	3, 4, 1	4, 0, 4	2, 5, 1	4, 3, 1	3, 4, 1	3, 3, 2	4, 4, 0	4, 2, 2	1, 7, 0	0, 6, 2	4, 3, 1
Sunshine ...	3, 5, 0	2, 3, 3	0, 3, 5	1, 1, 6	1, 2, 5	1, 2, 5	2, 3, 3	2, 3, 3	3, 4, 1	1, 4, 3	1, 4, 3	2, 3, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(23007—19.) Wt. 162—833/512. 625. 5/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

['TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.				
		Highest	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft	
						Of Daily Max.	Of Daily Min.	Daily Mean.										Ground Frosts,	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average.
	Ft.	°F.		°F		°F.	°F.	°F	°F		in.	mm.	mm.		hr.	hr.	%	°F.	°F.	°F	°F	°F	°F.
0. SCOTLAND, N.																							
a, Islands.. *a* Lerwick	54	50	21st	31	24th	44·6	35·0	39·6	− 2·4	6	0·18	5	− 8										
a Houton Bay, Orkney	520	50	21, 22	30	26th	44·3	34·9	39·4	—	5	0·45	11	− 1	Houton Bay ..	3·5	− 1·4	23	3	29	•	•	•	•
a Stornoway	51	52	22nd	30	24th	49·6	37·9	43·5	− 0·6	5	0·51	13	− 3	Stornoway ..	5·4	+ 0·2	36	•	•	•	•	•	•
a Castlebay, Barra I. ..	37	49	21-24	38	26th	47·6	41·3	44·3	—	5	0·55	14	—	Castlebay ..	4·7	—	32	•	•	•	•	•	•
b, Mainland. *a* Wick	81	56	22nd	33	26th	48·0	37·0	42·2	− 1·5	5	0·48	12	0										
a Strathpeffer	125	57	21st	30	20th	52·0	37·9	44·6	− 0·5	3	0·45	11	0										
p Glencarron	500	51	20th	31	20, 26	46·7	36·1	41·2	− 3·2	5	1·57	40	+ 10										
a Fort Augustus.. ..	68	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William	171	55	20, 24	32	20th	51·7	37·9	44·5	− 1·5	4	0·48	12	− 12										
1. SCOTLAND, E.																							
a Nairn	82	58	22nd	31	21st	51·6	36·7	43·8	− 1·3	5	0·68	17	+ 7	Nairn	4·0	—	27	•	•	•	•	•	•
p Gordon Castle	101	59	21st	32	26th	51·6	38·6	44·8	− 0·6	5	0·73	19	+ 7	Gordon Castle..	3·8	—	26	•	•	•	•	•	•
a Aberdeen	46	61	22nd	34	21st	52·1	38·4	44·9	+ 0·1	4	0·44	11	− 2	Aberdeen ..	4·9	− 0·7	33	3	23	•	•	42·6	− 0·8
a Balmoral	930	57	22nd	25	21st	48·9	33·3	40·7	− 1·4	4	0·40	10	− 4	Balmoral ..	•	•	•	3	22	•	•	•	•
p Crieff	432	56	21, 22	30	20, 26	53·1	35·3	43·8	− 2·2	1	0·01	0	− 14	Crathes	4·5	− 0·7	30	3	21	45·2	0·0	42·0	− 1·4
a Dundee	244	61	22nd	30	20, 21	54·9	35·0	44 5	− 1·0	1	0·06	2	− 9	Dundee	6·0	—	41	4	24	45·6	•	•	•
a Leith	30	60	21st	35	21st	53·4	39·7	46·2	− 0·3	3	0·20	5	− 4	Leith	—	—	—	1	29	•	•	•	•
p Edinburgh	441	59	21st	34	21, 26	51·1	37·6	44·0	− 1·0	3	0·34	9	0	Edinburgh ..	4·6	− 0·4	32	2	24	•	•	•	•
a West Linton	769	55	21st	25	21st	49·3	32·1	40·3	− 2·3	4	0·55	14	—	West Linton ..	4·7	—	32	3	18	•	•	•	•
p Marchmont	498	58	22nd	28	21st	52·1	34·3	42·8	− 1·7	3	0·32	8	− 6	Marchmont .	4·7	− 0·4	32	•	•	•	•	•	•
6. *a*, SCOTLAND, W.																							
a Ford (Argyll)	149	55	21st	30	21st	51·6	36·3	43·6	—	4	0·56	14	—	Ford (Argyll) ..	•	•	•	2	21	45·9	—	42·4	—
p Glasgow Observatory	180	54	21, 23	36	20, 21	51·7	39·3	45·2	− 1·1	4	0·32	8	− 7	Glasgow.. ..	6·6	+ 2·2	45	2	26	•	•	•	•
p Rothesay	200	54	21, 22	36	20, 26	51·3	38·1	44·4	− 2·2	4	0·43	11	− 8	Rothesay ..	5·7	—	39	1	29	46·7	—	44·4	+1·1
a Kilmarnock	90	57	22nd	32	20, 21	54·0	37·9	45·6	− 0·1	2	0·40	10	− 5	Kilmarnock ..	6·9	—	47	•	•	46·2	—	43·2	—
a Colmonell	170	58	20th	33	21st	54·4	38·7	46·2	+ 0·3	4	0·39	10	− 6	Colmonell ..	•	•	•	2	26	•	•	•	•
p Cally, Gatehouse ..	120	63	22nd	29	21st	56·1	36·7	45 9	+ 0·1	1	0·22	6	− 13	Dumfries ..	6·5	—	45	5	19	46·3	− 1·4	43·4	− 2·7
p Dumfries	160	60	22nd	30	21st	52·3	36·4	44·0	− 2·7	3	0·14	4	− 11	Eskdalemuir ..	6·1	—	42	6	16	•	•	•	•
a Eskdalemuir	794	58	22nd	23	21st	50·0	31·3	40·2	—	4	0·29	7	—										
b, I. OF MAN *p* Douglas	277	57	22nd	36	22nd	50·4	39·3	44·6	− 1·8	3	0·32	8	− 7	Douglas	8·4	+ 2·2	58	1	29	•	•	•	•
2. ENGLAND, N.E																							
a Alnwick Castle ..	210	62	22nd	28	21st	53·1	38·0	45·2	0·0	3	0·15	4	− 9										
a Tynemouth	71	63	22nd	33	21st	50·1	38·9	44·2	− 1·1	2	0·09	2	− 9	Cockle Park ..	4·8	− 0·2	33	2	22	44·8	− 0·3	43·6	− 0·7
p Durham	336	63	22nd	26	21st	52·9	35·4	43·7	− 1·7	4	0·20	5	− 6	Durham ..	5·8	+ 1·1	40	4	15	•	•	•	•
a North .. *p* Rounton	249	64	22nd	27	21st	51·4	34·7	42 7	− 2·5	4	0·13	3	− 9	Rounton ..	•	•	•	7	16	45·6	—	•	•
a West Witton	605	61	22nd	27	21st	52·0	36·7	44·0	—	4	0·29	7	—	West Witton ..	•	•	•	3	22	45·8	—	40·6	—
p Scarborough	100	—	—	39	22, 26	—	41·1	—	—	3	0·14	4	− 7	Scarborough† ..	5·6	+ 0·3	38	•	•	•	•	39·8	—
p York	56	64	22nd	30	21st	52·7	38·3	45·2	− 2·4	3	0·21	5	− 6	York	5·0	+ 0·3	34	—	—	46·1	− 0·9	44·1	− 1·2
a Spurn Head	26	54	22, 23	37	22nd	49·0	39·3	43 9	− 2·6	2	0·24	6	− 2	Spurn Head ..	3·3	—	23	•	•	•	•	•	•
b, South .. *a* Lincoln	58	60	22nd	33	21st	52·1	38·0	44·7	− 3·4	4	0·21	5	− 5	Lincoln	•	•	•	2	28	46·5	− 1·2	44·1	− 1·3
a Fulbeck	180	63	20th	30	1st	53·3	36·3	44 4	− 3·4	4	0·35	9	− 2	Fulbeck* ..	3·9	− 1·7	27	•	•	46·9	− 3·3	44·9	− 1·7
														Skegness ..	4·7	− 1·2	33	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	52	25th	35	22, 26	47·9	37·9	42·7	− 4·1	3	0·14	4	− 6	Cromer	2·5	− 3·4	17	•	•	•	•	•	•
a Little Massingham ..	280	54	22nd	30	22nd	49·4	35·1	41·9	− 5·4	5	0·37	9	− 4	Lit. Massingham	3·1	− 2·6	22	•	•	•	•	•	•
a Yarmouth	13	58	23rd	33	22, 23	50·1	37·4	43·5	− 3·0	4	0·35	9	− 2	Yarmouth ..	3·4	—	24	0	33	47·9	− 2·7	46·4	− 2·4
a Norwich	93	58	22nd	29	22nd	50·8	38·0	44·1	− 3·6	3	0·19	5	− 8	Norwich ..	2·5	—	17	4	21	47·4	•	•	•
a Geldeston	37	57	22nd	29	22nd	51·3	36·0	43·3	− 3·9	3	0·32	8	− 3	Geldeston ..	3·5	− 2·5	24	•	•	•	•	•	•
p Cambridge	41	59	20th	25	22nd	53 9	33·0	43·0	− 5·2	3	0·35	9	− 2	Cambridge ..	3·1	− 2·7	22	4	23	48·4	− 0·9	46·1	− 1·6
a Clacton-on-Sea ..	54	56	23rd	35	21, 25	49·3	38·9	43·9	− 3·3	3	0·41	10	+ 1	Clacton	3·0	− 3·5	21	1	30	48·0	− 0·9	47·3	− 1·0
a Rothamsted	424	54	23rd	28	22nd	50·3	35·6	42·6	− 4·7	3	0·25	6	− 7	Rothamsted ..	3·7	− 1·9	26	4	?23	45·8	•	•	•
p Tottenham	51	60	20th	33	22nd	54·3	38·6	46·1	—	3	0·27	7	—	Tottenham ..	3·2	—	22	0	31	•	•	46·5	− 1·4
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	61	22nd	30	21st	51·7	36·4	43·7	− 1·8	4	0·38	10	− 3	Harrogate ..	5·7	+ 0·3	39	2	22	44·8	− 0·3	43·9	− 0·8
p Sheffield	429	60	22nd	31	21st	51·6	37·7	44·3	—	4	0·59	15	—	Sheffield ..	4·1	− 0·9	28	2	23	44·8	− 1·3	42·5	− 1·5
p Buxton	987	56	21, 22	26	21st	49·3	34·3	41·4	—	2	0·44	11	− 9	Buxton ..	5·1	—	35	2	25	44·1	− 2·4	41·2	− 2·6
a Bawtry	65	60	22nd	28	21st	53·6	37·3	45·1	− 2·4	3	0·28	7	− 4	Worksop ..	4·4	− 0·5	31	5	19	46·9	—	44·7	—
a Nottingham	82	62	22nd	29	21st	52·3	36·6	44·1	− 3·4	4	0·41	10	− 1	Nottingham ..	3·9	− 1·5	27	3	26	45·3	− 2·3	43 3	− 1·6
b, East .. *p* Birmingham, Edgbas.	535	61	22nd	33	21st	51·9	37·3	44·3	− 3·1	3	0·28	7	− 6	Birmingham ..	4·5	+ 0·2	31	2	20	43·6	− 1·8	43·3	− 1·7
a Raunds	203	60	22nd	27	22nd	52·1	34·0	42·6	− 5·3	3	0·39	10	− 2	Raunds	4·3	—	30	5	21	46·8	•	43·6	•
p Oxford	208	59	22nd	31	21, 22	53·7	36·4	44·6	− 3·9	2	0·15	4	− 8	Oxford	5·2	− 0·4	36	3	23	•	•	•	•
														Malvern ..	6·8	—	48	2	24	47·4	—	45·3	—
a Cheadle (N. Staffs.) ..	646	59	22nd	31	21st	51·1	37·1	43·8	− 2·4	3	0·17	4	− 10	Cheadle	•	•	•	1	30	•	•	•	•
c, West .. *p* Tenbury	313	63	22nd	26	21st	54·3	33·9	43·6	− 3·7	3	0·27	7	− 3	Tenbury	•	•	•	3	22	47·4	—	—	—
p Ross-on-Wye ..	201	63	22nd	29	21st	56·0	35·4	45·2	− 3·3	3	0·14	4	− 9	Ross-on-Wye ..	7·1	—	50	3	23	—	—	—	—
a Clifton	328	61	22nd	35	21, 22	54·1	39·6	46·5	− 3·0	3	0·18	5	− 13	Clifton	6·5	—	45	0	32	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	57	22, 23	28	22nd	53·3	35·3	43·9	− 3·0	2	0·09	2	− 14	Worthing ..	5·5	− 1·0	39	2	27	48·6	− 2·0	47·0	− 1·3
p Salisbury (Wilton) ..	180	60	20th	29	22nd	56·1	34·9	45·0	− 3·3	2	0·21	5	− 13	Marlborough ..	5·5	+ 0 3	38	5	22	48·8	—	47·2	—
a Wisley, Surrey ..	150	60	23rd	28	22nd	52·6	37·3	44·6	− 3·7	3	0·20	5	− 7	Salisbury ..	•	•	•	3	26	49·8	—	•	•
a Tunbridge Wells ..	354	60	23rd	32	25th	52·3	37·7	44·7	− 3·4	3	0·23	6	− 10	Wisley	4·0	− 1·7	28	4	17	47·0	− 1·6	45·5	− 1·6
a Margate	51	54	25th	39	25th	48·9	41·6	45·1	− 3·4	3	0·18	5	− 7	Tunbridge Wells	3·4	− 2·6	24	5	24	47·9	− 0·4	46·9	—
														Margate	2·2	− 3·8	15	0	34	48·1	− 0·3	47·1	− 0·1
a Dungeness	21	56	20, 25	32	25th	52·7	39·1	45·6	− 2·1	3	0·35	9	− 2	Folkestone ..	2·3	—	16	•	•	•	•	44·9	—
p St. Leonards	178	55	20, 23	35	25th	52·1	39·1	45·3	− 3·2	2	0·34	9	− 4	St. Leonards ..	3·2	− 3·4	23	1	30	48·9	—	45·4	—
p Southampton	64	62	20th	33	22nd	56·1	39·4	47·4	− 2·6	3	0·27	7	− 9	Southampton ..	6·6	+ 0·4	46	4	23	•	•	•	•
a Ventnor	59	61	23rd	36	22nd	54 4	41·1	47·4	− 2·1	1	0·02	0·4	− 14	Ventnor	6·7	+ 0·3	48	•	•	•	•	•	•
LONDON. *a* Richmond (Kew Obs.)	18	58	23rd	33	22nd	52·1	38·5	45·0	− 3·9	2	0·24	6	− 7	Richmond ..	3·8	− 1·8	27	4	23	†48·0	− 0·8	46 2	− 1·0
a Westminster	27	59	20th	35	22, 25	54 9	39 6	46·9	− 2·8	3	0·30	8	− 4	Westminster ..	3·1	− 1·7	22	1	30	•	•	•	•
ag Greenwich	149	60	23rd	32	22nd	53·0	37·9	45 1	− 3·6	3	0·38	10	+ 2	Greenwich ..	3·1	− 2·2	22	4	18	•	•	•	•
a Hampstead	450	60	20th	32	22nd	53·4	36·0	44·3	—	3	0·37	9	—	Hampstead ..	4·0	—	28	3	25	•	•	•	•
ag Camden Square ..	110	63	22nd	33	22nd	56·0	37·9	46·5	− 3 8	3	0·49	12	− 2	Camden Square	3·1	− 1·8	22	0	31	•	•	•	•
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	55	22nd	32	21st	48·9	35·9	42·1	− 4·0	4	0·24	6	− 10	Aspatria.. ..	5·3	+ 0·1	36	1	26	45·7	− 2·8	43·5	− 2·3
p Newton Rigg	569	60	22nd	28	21st	51·6	34·9	42·9	− 2·4	4	0·41	11	− 4	Newton Rigg ..	6·1	+ 0 9	42	5	24	47·4	+0·8	43·0	− 1·2
p Stonyhurst	375	55	21, 22	29	21st	50·9	37·1	43·7	− 2·6	4	0·80	20	+ 1	Stonyhurst ..	5·6	+ 0·5	39	2	20	•	•	•	•
p Blackpool	66	54	20th	32	21st	51·1	40·0	45·3	− 1·5	4	0·23	6	− 7	Blackpool ..	7·0	+ 1·1	49	3	18	47·1	—	44·7	—
a Southport	37	54	20th	30	21st	50·6	39·7	44·9	− 2·3	4	0·26	7	− 6	Southport ..	7·3	+ 1·5	51	2	22	48·4	− 1·0	46·3	− 1·2
														Hoylake ..	7·4	+ 2·0	51	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	53	22nd	36	21, 22	49·7	40·1	44·7	− 3·1	2	0·12	3	− 9	Liverpool ..	7·0	—	49	1	28	•	•	•	•
a Hawarden Bridge ..	22	58	21st	35	21st	52·0	40·4	45·9	− 2·5	3	0·19	5	− 5	Manchester (City)	4·3	− 0·1	30	1	28	45·9	− 0·6	44·5	− 1·5
p Manchester (Whit. Pk.)	126	58	22nd	31	21st	52·0	39·9	45·7	− 2·7	4	0·26	7	− 7	Whitworth Park	3·9	− 0·2	27	•	•	•	•	•	•
b NORTH WALES.																							
p Llandudno	16	56	22nd	35	21st	50·7	40·6	45·4	− 2·7	4	0·50	13	+ 1	Llanduduo ..	7·5	+ 1·7	52	•	•	•	•	•	•
a Holyhead ..	15	57	22nd	36	21st	51·0	40·7	45·6	− 1·8	4	0·29	7	− 7	Holynead ..	7·8	—	54	3	24	•	•	•	•
a Beddgelert	309	58	22nd	33	21st	52·3	38·7	45·2	—	4	1·65	42	—	Aberdovey ..	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.				Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.			Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft		Earth 4 ft.	
																		Ground Frosts.	Lowest Reading.	Mean.	Deviation from average.	Mean.	Deviation from average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		° F.	°F.	°F.	°F.	°F.
8. *a.* SOUTH WALES.																							
a Aberystwyth	59	55	20th	35	21, 23	48·9	37·7	43·0	—	3	0·32	8	—	Aberystwyth ..	6·8	+ 1·1	48	•	•	•	•	•	•
a Rhayader	757	58	22nd	22	21st	49·7	33·4	41·2	—	4	0·65	17	—	Rhayader ..	6·1	—	43	5	18	•	•	•	•
a St. Ann's Head	149	55	20th	38	21st	51·1	41·4	46·0	- 1·4	2	0·24	6	- 10	St. Ann's Head	8·2	+ 1·9	57	•	•	•	•	•	•
p Cardiff	202	57	23rd	32	21st	54·0	39·1	46·2	- 1·9	2	0·14	4	- 17	Cardiff	7·5	—	52	5	25	48·8	-0·2	45·6	-1·4
b, ENGLAND, S.W.																							
a Bath	66	60	22nd	32	21, 22	55·4	37·7	46·1	- 2·5	3	0·16	4	- 12	Bath	•	•	•	—	—	49·5	+0·4	46·6	-1·2
a Shaftesbury	722	56	22, 23	32	22nd	52·4	36·7	44·2	- 3·0	2	0·15	4	- 14	Shaftesbury ..	•	•	•	•	•	48·4	•	45·9	•
a Arlington	613	58	22nd	32	22, 25	52·7	37·0	44·5	- 2·7	1	0·45	11	- 14										
a Newquay	190	57	20th	34	25th	51·1	40·0	45·3	—	0	0·00	0·1	- 15	Newquay ..	8·5	+ 2·2	60	2	29	51·3	•	48·5	•
a Cullompton	202	63	23rd	30	25th	56·7	37·1	46·4	- 2·3	2	0·23	6	- 13	Cullompton ..	7·5	+ 1·8	53	3	26	50·5	•	•	•
a Portland Bill	19	58	23rd	39	21, 23, 25	51·7	41·3	46·3	- 2·0	2	0·09	2	- 11	Weymouth ..	8·4	—	60	•	•	•	•	•	•
p Plymouth	116	60	23rd	37	21, 25	55·1	40·9	47·7	- 1·9	3	0·13	3	- 15	Plymouth ..	8·4	+ 2·1	60	1	29	50·7	-0·3	48·3	•
a Falmouth	167	59	23rd	37	25th	53·3	41·3	47·0	- 2·0	2	0·06	1	- 19	Falmouth ..	7·7	+ 1·1	55	2	28	52·7	•	50·4	•
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	56	21st	38	21st	49·4	41·0	45·0	- 1·2	4	0·37	9	- 3	Malin Head ..	8·3	—	57	•	•	•	•	•	•
{ *a* Blacksod Point ..	327	56	20th	38	20th	51·7	41·1	46·2	- 1·4	5	0·36	9	- 9	Markree Castle	7·9	+ 2·8	54	3	27	49·0	- 1·0	45·7	-1·4
{ *p* Markree Castle ..	122	60	21st	32	21st	54·6	37·4	45·6	- 0·9	5	0·74	19	+ 2										
b, East .. { *p* Armagh	196	62	22nd	31	21st	55·4	38·0	46·3	- 0·4	4	0·26	7	- 7	Armagh	8·4	+ 3·4	58	2	23	48·1	-0·3	45·6	-1·1
{ *a* Donaghadee	101	59	22nd	36	21st	51·3	39·1	44·9	- 1·7	3	0·24	6	- 7										
10. IRELAND, S.																							
p Dublin, City	47	62	22nd	37	22nd	54·7	41·1	47·6	- 1·3	3	0·25	6	- 8	Trinity Coll. ..	•	•	•	4	23	49·1	0·0	47·3	-0·4
a Birr Castle	175	61	22nd	31	21st	56·1	35·1	45·1	- 2·2	2	0·35	9	- 7	Phœnix Park ..	6·6	+ 1·0	46	5	23	•	•	•	•
a Kilkenny	212	62	22nd	30	22nd	55·4	37·0	45·8	- 2·0	2	0·18	5	- 11	Dublin City ..	•	•	•	0	32	•	•	•	•
a Waterford	120	59	22nd	34	22nd	54·6	38·7	46·3	- 2·3	1	0·14	4	- 13	Birr Castle ..	6·3	+ 1·2	44	5	27	•	•	•	•
p Seskin, Carrick-on-Suir	541	58	22, 23	34	22nd	55·1	37·0	45·6	—	2	0·17	4	—	Seskin	8·7	—	61	3	25	•	•	•	•
a Cahir	199	62	22nd	31	22nd	56·7	38·1	47·0	- 0·3	2	0·31	8	—										
a Foynes	50	61	22nd	32	22nd	56·6	39·6	47·7	- 1·0	3	0·26	7	- 10										
a Cahirciveen (Val. Obs.)	30	60	20th	34	22nd	53·6	40·7	46·8	- 2·2	4	0·21	5	- 20	Cahirciveen ..	8·5	+ 3·0	59	0	34	•	•	•	•
a Killarney	174	66	20th	37	22nd	59·4	42·7	50·7	+ 2·0	4	0·49	12	- 11	Ballinacurra ..	8·7	+ 3·0	61	•	•	•	•	•	•
a Roche's Point	32	59	23rd	34	24th	54·4	39·9	46·8	- 1·8	2	0·09	2	- 17										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	57	20th	44	21, 23, 26	53·6	44·7	48·9	- 0·5	2	0·06	1	- 13	Scilly	9·7	+ 3·4	69	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	55	23rd	39	23rd	53·0	43·0	47·8	- 2·6	1	0·08	2	- 12	St. Heliers ..	8·9	+ 2·1	63	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	58	23rd	40	23rd	53·3	43·1	48·0	- 2·4	2	0·06	2	- 13	Guernsey† ..	8·4	+ 1·6	60	0	37	50·0	-1·3	48·3	-1·4

†The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, April 26th, 1919.

DISTRICT AND STATION.	Height.			Distribution of Wind.†								Extreme Velocities.							
				More than 17 m/s or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.			
	Above Mean Sea Level	Above Ground.	Above Building.	Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Veer from N.	Speed.	Mid Time.		Speed.	Date		
														day.	hr.		d.	h.	m.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.			m./s.			
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	— —	—	19, 22	11	82	66	9	0	304	12	19	11	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	12	89	67	0	360	7	26	12	18	26	13	10
Aberdeen	153	105	52	—	—	—	—	24	96	48	0	11	9	26	3	18	26	10	0
Edinburgh	485	39	31	—	—	22, 26	6	74	81	7	0	304	12	22	13	17	26	7	5
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	26	4	60	67	37	0	10	15	26	7	23	26	7	0
Paisley	188	81	15	—	—	—	—	55	87	18	8	360	11	26	10	18	26	6	20
, ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	26	6	1	83	66	12	337	13	26	10	22	26	10	25
South Shields	72	61	12	—	—	26	9	35	82	42	0	11	14	26	8	22	26	8	45
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	—	—	48	102	18	0	—	9	20	8	—	—	—	—
Gorleston	52	42	‡	—	—	26	4	62	92	10	0	—	12	26	18	22	26	23	50
Shoeburyness	103	90	‡	—	—	20, 26	12	59	91	6	0	337	12	26	18	22	26	8	0
4. MIDLAND COUNTIES,																			
Benson	270	84	‡	—	—	—	—	50	70	48	0	315	10	26	11	19	26	11	0
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	47	93	24	4	—	11	20	7	22	26	12	50
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡‡	—	—	26	10	91	64	3	0	315	15	26	11	20	26	13	55
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	22	94	52	0	315	7	26	13	17	26	13	20
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	25	67	76	0	337	10	26	11	16	26	10	50
Fleetwood (Cup Anr.) ..	109	44	—	—	—	23, 25, 26	22	75	61	10	0	360	16	26	9	—	—	—	—
Southport	80	62	48	—	—	23 to 26	47	80	34	7	0	270	16	26	2	22	26	2	20
Holyhead	60	40	‡	26	2	20, 24 to 26	23	55	69	19	0	315	18	26	7	24	26	7	15
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	20, 21, 24, 26	21	98	44	5	0	337	14	26	14	22	26	14	10
Plymouth	185	88	2	—	—	—	—	26	106	36	0	—	10	26	14	20	26	14	35
Lyme Regis	556	61	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	25, 26	12	67	59	30	0	231	14	26	4	—	—	—	—
Quilty	100	40	‡‡	—	—	25, 26	15	98	47	7	1	—	14	26	4	19	26	3	0
Cahirciveen (Val. Obs.)	98	41	‡‡	—	—	—	—	68	60	40	0	345	10	26	3	17	26	8	5
Weaver Pt.	180	30	‡‡	—	—	26	3	96	65	3	1	—	12	26	9	18	26	11	15
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.] * Above tops of trees.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

SEVENTEENTH WEEK of 1919—April 20th to April 26th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	57	30	82·4	75·8	78·9	− 1·0	26	− 5	14	+ 2	5	+ 1	0·61	16	− 1	4·5	−0·1	30	1023
Eastern.																			
1. SCOTLAND, EAST ...	61	25	83·8	75·3	79·3	− 0·8	35	− 2	17	+ 3	4	0	0·42	11	− 1	4·8	−0·5	33	1024
2. ENGLAND, N.E.	64	26	84·0	76·0	79·8	− 1·0	35	− 4	13	+ 5	3	− 1	0·19	5	− 6	5·0	−0·3	34	1024
3. ENGLAND, EAST ...	60	25	83·4	75·6	79·3	− 2·3	32	− 16	15	+ 8	3	− 1	0·31	8	− 4	3·1	−2·8	22	1023
4. MIDLAND COUNTIES ...	63	26	84·7	75·4	79·9	− 1·7	40	− 10	16	+ 7	3	− 1	0·27	7	− 6	5·2	−0·2	36	1025
5. ENGLAND, S.E.	62	28	84·7	76·6	80·4	− 1·8	39	− 11	10	+ 6	2	− 2	0·21	5	− 9	4·3	−1·7	30	1024
Western.																			
6. SCOTLAND, WEST ...	63	29	84·5	76·2	80·2	− 0·7	38	− 3	12	+ 4	3	− 1	0·35	9	− 9	7·5	+2·2	51	1025
7. ENGLAND, N.W.	60	28	83·5	76·8	80·0	− 1·4	32	− 10	9	+ 4	4	0	0·34	9	− 5	6·5	+1·3	45	1026
8. ENGLAND, S.W.	63	22	84·8	76·7	80·6	− 1·4	39	− 9	10	+ 7	2	− 2	0·23	6	− 13	7·6	+1·7	53	1026
9. IRELAND, NORTH ...	62	31	84·7	76·7	80·5	− 0·7	39	− 2	10	+ 5	4	− 1	0·39	10	− 5	8·2	+3·1	56	1027
10. IRELAND, SOUTH ...	66	30	86·2	77·0	81·4	− 0·7	47	− 2	8	+ 5	3	− 1	0·25	6	− 13	7·5	+2·0	52	1029
11. ENGLISH CHANNEL ...	58	39	84·8	79·4	82·0	− 1·0	43	− 14	0	0	2	− 2	0·07	2	− 12	9·0	+2·3	64	1026

THE SEASON (Spring).—Aggregates, &c., for the Period of 8 Weeks, March 2nd to April 26th, 1919.

0. SCOTLAND, NORTH ...	61	18	80·0	73·9	76·9	− 1·2	88	− 62	242	+ 50	43	+ 6	8·13	207	+ 31	4·2	+0·3	33	1009
Eastern.																			
1. SCOTLAND, EAST ...	71	11	80·5	73·3	76·8	− 1·4	120	− 67	280	+ 65	30	− 3	3·96	102	0	3·8	−0·5	30	1010
2. ENGLAND, N.E.	69	19	81·7	74·8	78·1	− 0·8	154	− 53	195	+ 39	29	− 1	3·61	92	+ 15	3·5	−1·1	27	1011
3. ENGLAND, EAST ...	70	21	82·2	74·9	78·4	− 1·0	179	− 79	177	+ 21	32	+ 5	3·57	92	+ 17	3·4	−1·4	27	1012
4. MIDLAND COUNTIES ...	70	22	82·1	74·7	78·3	− 1·1	171	−100	202	+ 32	31	+ 4	5·55	141	+ 59	3·6	−0·7	28	1012
5. ENGLAND, S.E.	71	24	82·8	75·7	79·1	− 0·9	205	− 68	137	+ 23	31	+ 4	5·45	137	+ 53	3·7	−1·1	29	1012
Western.																			
6. SCOTLAND, WEST ...	63	20	81·3	74·6	77·9	− 1·1	136	− 69	207	+ 62	34	+ 1	6·25	159	+ 11	4·2	−0·2	33	1011
7. ENGLAND, N.W.	63	19	81·1	75·2	78·1	− 1·3	129	− 88	176	+ 50	31	+ 2	6·09	157	+ 52	3·7	−0·7	29	1012
8. ENGLAND, S.W.	71	21	82·4	75·6	78·9	− 1·1	181	− 82	147	+ 51	33	+ 4	6·91	176	+ 53	4·7	−0·1	37	1014
9. IRELAND, NORTH ...	62	22	82·0	75·0	78·4	− 1·2	162	− 67	181	+ 63	40	+ 4	4·78	120	− 2	4·1	−0·1	32	1012
10. IRELAND, SOUTH ...	66	24	82·9	75·8	79·2	− 1·2	203	− 80	151	+ 62	38	+ 6	4·28	109	− 22	4·2	−0·5	33	1015
11. ENGLISH CHANNEL ...	66	30	83·3	78·0	80·6	− 0·8	249	− 65	53	+ 26	36	+ 5	6·45	163	+ 62	5·5	−0·1	43	1015

THE YEAR 1919.—Aggregates, &c., for the Period of 17 Weeks, December 29th, 1918, to April 26th, 1919.

0. SCOTLAND, NORTH ...	61	11	78·7	73·2	75·9	− 1·3	92	−117	650	+ 138	79	− 4	14·12	360	− 91	2·8	+0·2	27	1007
Eastern.																			
1. SCOTLAND, EAST ...	71	5	78·7	72·5	75·5	− 1·5	120	−130	748	+ 160	67	− 2	9·63	247	+ 18	2·6	−0·5	25	1008
2. ENGLAND, N.E.	69	11	79·6	73·9	76·7	− 1·0	164	−125	560	+ 99	71	+ 7	9·47	242	+ 76	2·4	−0·9	23	1009
3. ENGLAND, EAST ...	70	10	80·1	73·9	77·0	− 0·9	214	−135	566	+ 83	72	+10	9·25	237	+ 73	2·4	−1·0	22	1010
4. MIDLAND COUNTIES ...	70	9	79·8	73·6	76·7	− 1·2	194	−178	613	+ 107	68	+ 6	11·78	299	+111	2·5	−0·5	23	1010
5. ENGLAND, S.E.	71	16	80·7	74·8	77·7	− 0·9	288	−102	439	+ 65	73	+12	12·55	317	+119	2·6	−0·9	24	1010
Western.																			
6. SCOTLAND, WEST ...	63	14	79·8	74·1	76·9	− 1·1	153	−138	522	+ 118	70	− 5	13·14	334	− 39	2·9	−0·1	27	1009
7. ENGLAND, N.W.	63	16	79·7	74·5	77·1	− 1·1	150	−159	483	+ 107	70	+ 4	11·15	284	+ 31	2·7	−0·4	25	1009
8. ENGLAND, S.W.	71	15	80·8	75·1	77·9	− 1·1	263	−144	401	+ 104	76	+ 9	16·76	427	+127	3·4	0·0	32	1010
9. IRELAND, NORTH ...	62	22	80·7	74·8	77·7	− 1·0	219	−134	425	+ 92	81	+ 1	10·45	263	− 31	3·1	+0·1	30	1008
10. IRELAND, SOUTH ...	66	22	81·6	75·4	78·5	− 1·0	313	−152	358	+ 101	79	+ 6	11·73	299	− 24	3·3	0·0	31	1009
11. ENGLISH CHANNEL ...	66	26	82·2	77·6	79·9	− 0·6	417	−114	137	+ 32	84	+11	18·13	459	+208	3·7	−0·3	34	1011
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: May 2nd, 1919.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 18.

THE EIGHTEENTH WEEK OF 1919.

SUNDAY, APRIL 27TH, TO SATURDAY, MAY 3RD, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

The weather at the beginning of the week was of a very wintry character. Barometric pressure was high over the Atlantic and low over the North Sea, with a well-marked "secondary" travelling south-eastwards over our Islands towards the Continent. The snowstorm associated with this system proved itself to be the most important of the season. The snow was somewhat irregular in its distribution, London and the neighbouring counties receiving the largest quantities. The yield of water on Monday morning was about 30mm. generally, increasing to 43mm. on Hampstead Heath. The depth of "snow-lying" was in many cases as much as 11 or 12 inches, and at Hampstead at 2 a.m. it was 15 inches in places, and the fall is described as the heaviest since the station was inaugurated in 1909. The snow flakes at several places were of abnormal size, up to two inches in diameter. Showers of hail, sleet and rain continued for several days throughout the country, but the northerly type of weather gradually changed to westerly. Temperature was very low at the beginning of the week, but it increased steadily and the highest maxima were recorded nearly everywhere on Saturday, when the thermometer touched 290a. at Greenwich. The mean for the week was 2a. or 3a. below normal in all parts of the British Isles. The total rainfall was less than the normal in Scotland W. and Ireland S., but in all other Districts it was above it, the greatest excess being 17mm. in England E. and England S.E. The week as a whole was dull in all Districts, sunshine being from 2 to 3 hours per day less than the normal over England generally, while in the English Channel District the daily value was only 2·7 hr., against a normal of 7·2 hr., a deficiency of 4·5 hr. per day. Aurora was witnessed at Oxford and Tenbury on April 29th and at Aberdeen on May 2nd. A solar halo was seen at Oxford on April 28th and at Tenbury on May 1st, and a lunar halo at Aberdeen on May 3rd.

Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.*		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South ... * ...	9	4·5	8	2·9	—	—	7	3·1	9	3·3	2	1·9	9	3·1	12	3·0
North	15	10·0	13	6·2	—	—	20	4·4	17	9·8	22	8·9	15	8·6	16	6·7
West	24	4·9	24	5·8	—	—	25	2·5	22	4·7	23	8·7	24	6·2	19	5·8
East	0	—	3	4·1	—	—	1	4·3	4	4·6	2	4·0	1	3·3	6	1·7
Calm	0	—	0	—	—	—	1	—	0	—	0	—	0	—	0	—

* For Scotland N. (Deerness) the week ends at midnight on Friday.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient	Deficient	Deficient	Deficient	Very deficient
	Rainfall ...	Heavy	Heavy	Heavy	Very heavy	Heavy	Very heavy	Moderate	Heavy	Heavy	Heavy	Moderate	Moderate
	Sunshine ...	Moderate	Moderate	Moderate	Scanty	Scanty	Scanty	Scanty	Moderate	Very scanty	Moderate	Scanty	Very scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SPRING. 9 weeks from March 2nd, 1919.	Warmth ...	1, 3, 5	1, 3, 5	2, 3, 4	1, 3, 5	0, 4, 5	1, 3, 5	1, 3, 5	1, 3, 5	0, 4, 5	0, 3, 6	0, 3, 6	0, 4, 5
	Rainfall ...	5, 2, 2	4, 4, 1	5, 0, 4	3, 5, 1	5, 3, 1	4, 4, 1	3, 4, 2	5, 4, 0	5, 2, 2	2, 7, 0	0, 7, 2	4, 4, 1
	Sunshine ...	3, 6, 0	2, 4, 3	0, 4, 5	1, 1, 7	1, 2, 6	1, 2, 6	2, 3, 4	2, 4, 3	3, 4, 2	1, 5, 3	1, 4, 4	2, 3, 4

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{5}{9}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(23126—19.) Wt. 162—833/512. 625. 5/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Heights above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft	
						Of Daily Max.	Of Daily Min.	Daily Mean.										Ground Frosts.	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average.
	Ft.	°F.		°F.		°F.	°F.	°F	°F		in.	mm.	mm.		hr.	hr	°/c.		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																							
a, Islands .. a Lerwick ..	54	48	30th	29	27th	44·7	34·3	39·3	- 3·0	6	0·71	18	+ 4										
a Houton Bay, Orkney	520	48	30, 1	29	27, 28	44·1	31·7	37·6	—	6	0·80	20	+ 7	Houton Bay ..	4·4	- 1·0	28	2	27	•	•	•	•
a Stornoway	51	51	30th	28	27, 28	46·0	33·9	39·7	- 4·7	6	1·06	27	+ 10	Stornoway ..	4·2	- 1·5	27	•	•	•	•	•	•
a Castlebay, Barra I. ..	37	48	29, 30	29	28th	45·0	36·1	40·3	—	6	0·51	13	—	Castlebay ..	5·2	—	34	•	•	•	•	•	•
b, Mainland. a Wick	81	51	30, 1	30	27th	47·3	33·7	40·2	- 3·8	5	0·44	11	- 2										
a Strathpeffer	125	51	30th	30	27, 28	47·0	34·0	40·2	- 5·5	6	1·06	27	+ 15										
p Glencarron	500	47	30th	28	27th	42·7	33·6	37·9	- 6·9	6	0·19	30	- 1										
a Fort Augustus.. ..	88	754	30th	30	27-29, 2	47·4	33·1	39·9	- 5·4	5	1·28	33	+ 18										
p Fort William ..	171	55	30th	30	27th	47·7	35·0	41·1	- 5·5	6	1·04	26	+ 1										
1. SCOTLAND, E.																							
a Nairn	82	53	30, 3	30	27, 28	47·6	33·7	40·3	- 5·3	6	0·37	9	- 1	Nairn	5·3	—	34	•	•	•	•	•	•
p Gordon Castle	101	52	1st	30	27th	46·7	34·7	40·4	- 5·5	6	0·73	19	+ 7	Gordon Castle..	4·3	—	28	•	•	•	•	•	•
a Aberdeen	46	55	1st	31	27th	48·4	35·1	41·4	- 3·9	5	1·28	32	+ 19	Aberdeen ..	5·5	+ 0·1	36	5	18	•	•	43·0	-1·1
a Balmoral	930	52	30th	25	27th	43·3	29·3	36·0	- 6·8	6	1·49	38	+ 24	Balmoral ..	•	•	•	6	19	•	•	•	•
p Crieff	432	58	30th	29	2nd	48·3	33·3	40·4	- 6·3	4	0·14	4	- 10	Crathes	4·4	- 0·6	29	4	23	42·5	3·8	42·5	-1·8
a Dundee	244	60	30th	28	27, 28	50·6	32·3	41·0	- 5·1	3	0·76	19	+ 7	Dundee ..	5·6	—	37	6	19	44·3	•	•	•
a Leith	30	58	30th	30	28th	48·4	36·3	42·1	- 4·9	6	0·88	22	+ 12	Leith	—	—	—	3	23	•	•	•	•
p Edinburgh	441	55	30th	28	28th	46·7	34·6	40·4	- 5·1	5	1·00	25	+ 15	Edinburgh ..	4·0	- 0·9	26	4	22	•	•	•	•
a West Linton	769	52	30th	22	28th	45·6	31·1	37·1	- 6·2	4	1·24	31	—	West Linton ..	3·4	—	23	4	19	•	•	•	•
p Marchmont	498	54	3rd	26	28th	46·9	32·7	39·5	- 5·6	2	0·59	15	+ 1	Marchmont .	4·6	- 0·4	31	•	•	•	•	•	•
6. a, SCOTLAND, W.																							
a Ford (Argyll)	149	52	30th	31	27th	48·4	34·7	41·2	—	6	0·99	25	—	Ford (Argyll) ..	•	•	•	5	21	44·6	—	43 3	—
p Glasgow Observatory	180	53	30th	31	27th	47·4	36·3	41·6	- 5·5	6	0·45	11	- 6	Glasgow.. ..	4·1	- 0·5	27	4	22	•	•	•	•
p Rothesay	200	53	30th	31	27, 28	47·0	35·3	40·9	- 6·3	6	0·60	15	- 6	Rothesay ..	4·5	—	30	5	26	44·6	—	44·7	-1·6
a Kilmarnock	90	55	30, 1	29	28th	50·3	35·6	42·6	- 3·8	6	0·53	14	- 3	Kilmarnock ..	4·7	—	31	•	•	43·8	—	44·0	—
a Colmonell	170	53	30, 1	33	27, 3	48·6	36·9	42·5	- 4·1	6	0·77	20	+ 2	Colmonell ..	•	•	•	0	31	•	•	•	•
p Cally, Gatehouse ..	120	59	30th	31	27, 28	51·1	36·4	43·4	- 3·1	7	0·73	19	- 2	Dumfries ..	4·2	—	28	5	23	44·0	-4·7	44·0	-3·2
p Dumfries	160	55	30th	28	28th	48·6	35·4	41·7	- 5·7	7	0·59	15	- 2	Eskdalemuir ..	5·3	—	35	5	15	•	•	•	•
a Eskdalemuir	794	55	30th	21	27th	47·1	30·6	38·5	—	7	0·98	25	—										
b, I.OF MAN p Douglas	277	54	1st	30	27th	48·6	37·9	43·0	- 4·0	7	1·34	34	+ 17	Douglas	4·5	- 2·1	30	2	29	•	•	•	•
2. ENGLAND, N.E																							
a North .. a Alnwick Castle ..	210	54	30, 2, 3	27	27th	49·7	35·3	42·2	- 3·6	7	0·95	24	+ 11										
a Tynemouth	71	57	3rd	30	27, 28	49·1	36·6	42·6	- 3·1	5	0·63	16	+ 5	Cockle Park ..	5·0	- 0·6	33	2	18	41·7	-4·5	43·5	-1·5
p Durham	336	58	30th	25	27, 28	48·9	33·7	40·9	- 5·1	6	0·83	21	+ 10	Durham ..	3·9	- 1·3	26	3	14	•	•	•	•
p Rounton	249	55	30, 3	26	27, 28	49·1	31·6	41·5	- 4·3	7	1·09	28	+ 16	Rounton ..	•	•	•	5	13	43·5	—	•	•
a West Witton	605	55	30th	26	27th	49·7	35·1	42·1	—	6	1·08	27	—	West Witton ..	•	•	•	3	24	43·7	•	41·5	—
p Scarborough	100	57	2nd	32	28, 29	52·3	37·1	44·3	- 2·5	5	0·50	13	+ 2	Scarborough† ..	5·6	- 0·3	37	•	•	•	•	40·8	—
p York	56	56	30th	29	27th	49·9	36·6	42·9	- 5·4	7	0·92	23	+ 12	York	3·9	- 1·3	26	—	—	44·7	-3·3	44·6	-1·6
b, South .. a Spurn Head	26	54	3rd	32	28th	48·0	36·6	42·0	- 5·1	5	0·95	24	+ 16	Spurn Head ..	1·4	—	9	•	•	•	•	•	•
a Lincoln	58	57	3rd	29	27th	50·6	36·3	43·1	- 5·8	6	1·06	27	+ 17	Lincoln	•	•	•	4	23	44·2	-4·6	44·7	-1·7
a Fulbeck	180	59	3rd	28	27th	50·9	34·9	42 5	- 5·9	6	1·03	26	+ 15	Fulbeck* ..	4·7	- 1·5	22	•	•	—	—	—	—
														Skegness ..	5·0	- 1·5	34	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	56	3rd	34	27th	48·7	37·9	43 0	- 4·6	7	0·51	13	+ 4	Cromer	5·1	- 1·3	34	•	•	•	•	•	•
a Little Massingham ..	280	57	3rd	28	27th	49·7	35·4	42·2	- 5·9	4	0·81	15	+ 4	Lit. Massingham	4·0	- 2·3	27	•	•	•	•	•	•
a Yarmouth	13	57	3rd	32	27th	50·9	37·3	43·8	- 3·5	6	0·67	17	+ 7	Yarmouth ..	4·8	—	33	0	31	46·4	-5·6	46·7	-3·2
a Norwich	93	61	3rd	32	27th	51·7	38·6	44·8	- 3·8	6	0·57	14	+ 3	Norwich ..	5·5	—	37	2	27	46·1	•	•	•
a Geldeston	37	58	3rd	31	27th	51·7	35·9	43·4	- 4·6	6	0·67	17	+ 7	Geldeston ..	5·3	- 1·4	36	•	•	•	•	•	•
p Cambridge	41	59	3rd	26	27th	50·9	35·0	42·6	- 6·5	5	1·61	41	+ 31	Cambridge ..	4·3	- 2·0	29	3	27	44·6	-6·0	46·1	-2·5
a Clacton-on-Sea ..	54	57	1st	32	27th	50·0	37·1	43·2	- 4·9	6	1·62	41	+ 33	Clacton	5·4	- 1·8	37	1	27	46·1	-4·0	47·3	-1·9
a Rothamsted	424	56	3rd	31	27, 28	48·3	36·7	42·2	- 5·9	7	1·75	44	+ 33	Rothamsted ..	4·0	- 2·1	27	2	24	42·9	•	•	•
p Tottenham	51	58	3rd	32	27, 28	50·4	38·6	44·2	—	5	1·71	43	—	Tottenham ..	3·9	—	27	0	31	•	•	46·4	-2·6
4. MIDLAND COUNTIES.																							
a North .. a Harrogate	479	55	30th	27	27, 28	49·1	34·4	41·4	- 4·8	6	0·94	24	+ 11	Harrogate ..	4·8	- 0·8	32	1	23	43·2	-3·0	44·1	-1·4
p Sheffield	429	55	3rd	29	28th	48·9	36·1	42·2	—	6	0·61	16	—	Sheffield.. ..	3·3	- 1·9	22	4	24	42·8	-4·5	43·0	-1·8
p Buxton	987	51	30, 3	27	28th	46·4	33·9	39·9	—	6	1·18	30	+ 11	Buxton	4·2	—	28	4	25	41·7	-5·7	42·0	-2·6
b, East .. a Bawtry	65	55	30, 3	26	27th	51·0	36·1	43·2	- 5·1	5	0·87	22	+ 11	Worksop ..	3·8	- 1·4	26	4	19	45·4	—	44·9	—
a Nottingham	82	58	3rd	29	27th	50·1	35·9	42·7	- 5·7	7	0·96	24	+ 13	Nottingham ..	3·0	- 2·6	20	4	21	43·5	-5·4	43 1	-2·9
p Birmingham, Edgbsn.	535	56	3rd	30	28th	49·0	37·0	42·7	- 5·6	6	0·78	20	+ 7	Birmingham ..	2·9	- 1·7	20	3	26	41·6	-4·8	43·7	-1·8
a Raunds	203	60	3rd	28	27th	51·0	35·9	43·1	- 5·7	6	1·22	31	+ 18	Raunds	5·0	—	34	4	21	45·4	•	44·6	•
p Oxford	208	58	3rd	32	27, 28, 30	50·7	38·0	44·1	- 5·3	5	1·20	30	+ 19	Oxford	3·6	- 2·4	24	3	23	•	•	•	•
														Malvern ..	3·4	—	23	2	23	44·4	—	45·4	—
c, West .. a Cheadle (N. Staffs.) ..	646	53	30th	28	28th	48·6	34·6	41·3	- 5·7	6	0·83	16	+ 3	Cheadle	•	•	•	3	26	•	•	•	•
p Tenbury	313	57	3rd	31	27, 28, 30	51·0	36·9	43·6	- 4·4	6	0·83	21	+ 11	Tenbury	•	•	•	4	24	44·9	—	—	—
p Ross-on-Wye	201	58	3rd	30	27th	52·3	38·9	45·3	- 4·0	5	0·67	17	+ 5	Ross-on-Wye ..	3·6	—	24	3	27	—	—	—	—
a Clifton	226	56	2nd	33	28th	51·3	40·0	45·4	- 5·1	5	0·69	17	+ 1	Clifton	3·2	—	22	0	31	•	•	•	•
5. ENGLAND, S.E																							
a Marlborough	424	55	3rd	27	27th	49·4	36·9	42·9	- 5·0	6	1·15	29	+ 18	Worthing ..	4·1	- 3·1	28	2	24	46·3	-5·7	47·1	-2·2
p Salisbury (Wilton) ..	180	57	3rd	29	27th	52·6	36·9	44·4	- 5·0	4	0·61	15	+ 3	Marlborough ..	2·9	- 2·8	20	4	20	46·4	—	47·5	—
a Wisley, Surrey ..	150	58	3rd	31	27, 28	50·6	38·1	44·1	- 5·2	7	1·22	31	+ 22	Salisbury ..	•	•	•	2	24	47·4	—	•	•
a Tunbridge Wells ..	354	57	1st	30	27th	51·3	37·0	43·8	- 5·3	7	1·77	45	+ 34	Wisley	2·5	- 3·7	17	2	18	44·6	-5·6	45·3	-2·8
a Margate	51	57	2, 3	33	28th	49·7	38·6	43·9	- 5·5	7	1·06	27	+ 18	Tunbridge Wells	4·1	- 2·5	28	4	20	45·6	-4·1	46·0	—
														Margate	4·4	- 2·0	30	0	31	46·7	-4·1	47·0	-1·0
a Dungeness	21	57	1-3	30	27th	51·1	36·0	43·2	- 5·6	7	1·02	26	+ 19	Folkestone ..	4·9	—	34	•	•	•	•	45·0	—
p St. Leonards	178	57	1st	31	28th	50·3	37·4	43·5	- 5·9	7	0·80	20	+ 11	St. Leonards ..	4·7	- 2·5	32	3	28	46·0	—	46·9	—
p Southampton	64	57	3rd	30	27th	52·4	37·6	44·6	- 6·5	6	0·55	14	+ 3	Southampton ..	3·1	- 3·6	21	3	22	•	•	•	•
a Ventnor	59	55	1st	33	28th	51·4	39·6	45·2	- 5·2	5	0·87	22	+ 12	Ventnor	1·9	- 5·1	13	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	58	3rd	32	28th	50·5	37·8	43·9	- 6·1	7	1·50	38	+ 29	Richmond ..	2·9	- 3·3	20	2	24	44·8	-5·4	46·0	-2·2
a Westminster	27	60	3rd	32	27, 28	52·1	39·3	45·4	- 5·4	7	1·87	47	+ 38	Westminster ..	3·4	- 1·9	23	2	26	•	•	•	•
ag Greenwich	149	62	3rd	31	27th	52·3	38·7	45·2	- 4·6	7	1·48	28	+ 30	Greenwich ..	3·9	- 1·6	27	2	22	•	•	•	•
a Hampstead	450	57	2, 3	31	27, 28	49·3	37·3	43·0	—	7	2·30	58	—	Hampstead ..	3·6	—	24	4	24	•	•	•	•
ag Camden Square ..	110	62	3rd	32	27, 28	52·3	38·6	45·1	- 6·4	7	2·21	56	+ 46	Camden Square	3·4	- 2·0	23	2	30	•	•	•	•
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	54	30th	24	28th	46·4	34·4	40·1	- 6·6	7	0·95	24	+ 7	Aspatria.. ..	4·2	- 1·3	28	3	23	43·8	-5·5	43·9	-2·7
p Newton Rigg	559	56	30th	26	28th	47·9	35·0	41·1	- 5·0	7	0·75	19	+ 2	Newton Rigg ..	4·4	- 1·2	29	4	22	45·7	-1·9	44·0	-1·0
p Stonyhurst	375	54	30th	30	28th	49·1	37·9	43·2	- 3·9	6	1·51	38	+ 18	Stonyhurst ..	4·8	- 0·7	32	2	24	•	•	•	•
p Blackpool	66	53	3rd	33	27, 28	49·1	39·3	44·0	- 3·5	7	0·89	23	+ 8	Blackpool ..	6·2	- 0·2	41	3	19	46·6	—	45·4	—
a Southport	37	53	1, 3	33	27, 28	48·9	39·1	43·8	- 4·1	5	0·61	15	0	Southport ..	5·6	- 0·7	38	2	23	47·4	-3·3	46·9	-1·8
														Hoylake ..	4·3	- 1·5	29	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	52	1, 3	32	28th	48·0	38·3	42·9	— 5·6	6	0·67	17	+ 4	Liverpool ..	4·8	—	32	2	30	•	•	•	•
a Hawarden Bridge ..	22	59	3rd	34	28th	50·6	40·7	45·4	— 3·7	5	0·54	14	+ 2	Manchester(City)	4·4	- 0·3	30	1	26	43·8	-3·9	45·3	-1·7
p Manchester (Whit. Pk.)	125	55	30th	31	27, 28	49·9	38·1	43·7	— 5·5	6	1·03	26	+ 11	Whitworth Park	2·9	- 1·6	19	•	•	•	•	•	•
b NORTH WALES.																							
p Llandudno	16	54	3rd	33	28th	48·9	40·0	44·2	- 4·5	6	1·05	27	+ 14	Llandudno ..	4·1	- 2·2	28	•	•	•	•	•	•
a Holyhead .. .	15	53	30, 3	33	28th	48·7	39·4	43·8	— 4·1	6	0·95	24	+ 10	Holyhead ..	3·5	—	23	0	32	•	•	•	•
a Beddgelert	509	51	30, 1, 3	30	28th	48·4	37·7	42·8	—	6	4·09	104	—	Aberdovey ..	—	—	—	—	—	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.				Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.	°F.
8. *a.* SOUTH WALES.																							
a Aberystwyth	59	52	3rd	33	28th	47·4	39·4	43·2	—	5	0·82	21	—	Aberystwyth ..	3·7	- 2·1	25	•	•	•	•	•	•
a Rhayader	767	53	3rd	28	27th	47·3	36·3	41·5	—	7	0·99	25	—	Rhayader ..	3·9	—	27	2	18	•	•	•	•
a St. Ann's Head	149	55	30th	32	28, 29	49·3	40·3	44·6	- 3·2	7	0·87	22	+ 9	St. Ann's Head	3·1	- 3·2	21	•	•	•	•	•	•
p Cardiff	202	54	30, 3	32	27, 28	50·3	38·6	44·2	- 4·6	6	0·65	17	0	Cardiff	3·2	—	22	4	22	46·6	-3·8	46·4	-1·6
b, ENGLAND, S.W.																							
a Bath	66	57	2, 3	32	27th	52·7	39·1	45·6	- 3·8	6	1·05	27	+ 14	Bath	•	•	•	—	—	47·8	-2·7	47·2	-1·4
a Shaftesbury	722	53	2, 3	29	28th	48·6	35·3	41·6	- 6·3	7	0·82	21	+ 6	Shaftesbury ..	•	•	•	•	•	45·7	•	46·5	•
a Arlington	613	51	3rd	30	28th	47·4	38·8	43·9	- 4·7	7	1·44	37	+ 17										
a Newquay	190	53	3rd	34	28th	49·1	41·7	45·2	- 4·0	7	1·19	30	+ 18	Newquay ..	2·2	- 4·2	15	0	32	48·8	•	49·0	•
a Cullompton	202	58	3rd	33	28th	52·9	40·7	46·5	- 2·9	7	0·63	16	+ 1	Cullompton ..	2·9	- 2·9	20	2	29	48·6	•	•	•
a Portland Bill	19	52	1st	34	28th	49·7	40·1	44·7	- 4·2	6	0·45	11	0	Weymouth ..	4·0	—	27	•	•	•	•	•	•
p Plymouth	116	56	1st	32	28th	51·6	40·4	45·7	- 4·4	7	0·47	12	- 2	Plymouth ..	3·1	- 3·2	21	0	31	47·9	-4·3	48·5	•
a Falmouth	167	55	2nd	33	28th	50·9	41·0	45·7	- 3·7	7	1·29	33	+ 17	Falmouth ..	2·4	- 4·3	16	1	28	50·2	•	50·7	•
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	50	1st	33	27th	46·3	38·3	42·1	- 4·8	6	0·64	16	+ 2	Malin Head ..	6·1	—	40	•	•	•	•	•	•
{ *a* Blacksod Point ..	327	52	30th	31	28th	47·6	36·9	42·0	- 6·3	7	1·16	29	+ 8	Markree Castle	4·4	- 0·8	29	2	27	47·7	- 3·2	46·5	-1·4
{ *p* Markree Castle ..	122	54	30, 1, 3	31	27th	49·9	38·1	43·7	- 3·7	6	1·69	43	+ 23										
b, East .. { *p* Armagh	196	59	30th	29	29th	51·6	36·3	43·6	- 4·1	6	0·69	18	+ 1	Armagh	4·8	- 0·3	32	2	19	47·6	-2·1	46·4	-1·2
{ *a* Donaghadee	101	55	1, 3	32	27th	49·6	37·9	43·5	- 3·9	6	0·68	17	+ 1										
10. IRELAND, S.																							
p Dublin, City	47	58	30th	33	29th	51·7	39·3	45·2	- 4·4	6	0·58	15	+ 1	Trinity Coll. ..	•	•	•	2	23	47·4	-2·7	47·5	-1·0
a Birr Castle	175	59	30th	31	28th	51·1	38·7	44·6	- 3·5	5	0·63	16	+ 1	Phœnix Park ..	4·0	- 2·7	27	3	24	•	•	•	•
a Kilkenny	212	59	30th	32	28, 29	52·0	39·0	45·2	- 3·4	6	0·37	9	- 6	Dublin City ..	•	•	•	1	29	•	•	•	•
a Waterford	120	—	—	—	—	—	—	—	—	—	—	—	—	Birr Castle ..	4·2	- 1·8	28	2	26	•	•	•	•
p Seskin, Carrick-on-Suir	541	61	30th	29	28th	51·9	37·1	44·1	—	6	0·28	7	—	Seskin	4·9	—	33	2	27	•	•	•	•
a Cahir	198	59	30th	31	28th	52·9	39·4	45·8	- 2·8	5	0·29	7	—										
a Foynes	50	56	30th	33	28th	50·7	41·6	45·9	- 3·5	5	0·70	18	+ 2										
a Cahirciveen (Val. Obs.)	30	54	3rd	32	28th	50·6	42·9	46·6	- 3·0	6	0·71	18	- 5	Cahirciveen ..	3·9	- 2·7	27	0	32	•	•	•	•
a Killarney	174	60	30th	32	28th	53·8	41·7	47·5	- 1·8	6	0·61	15	- 6	Ballinacurra ..	—	—	—	•	•	•	•	•	•
a Roche's Point	32	57	1st	34	28th	52·6	41·7	46·9	- 2·3	5	0·20	5	- 12										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	55	2nd	36	28th	50·9	42·7	46·6	- 3·4	7	0·80	20	+ 8	Scilly	2·2	- 4·6	15	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	53	30, 1-3	34	28th	51·1	41·7	46·2	- 5·1	6	0·67	17	+ 4	St. Heliers ..	2·7	- 4·5	19	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	58	1st	35	28th	51·9	42·9	47·2	- 4·1	4	0·34	9	- 3	Guernsey† ..	3·3	- 4·1	23	0	33	48·0	-4·6	48·6	-1·9

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, May 3rd, 1919.

DISTRICT AND STATION.	Height.			Distribution of Wind.†								Extreme Velocities.							
				More than 17 m/s or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.			
	Above Mean Sea Level	Above Ground.	Above Building.	Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Veer from N.	Speed.	Mid Time.		Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	27, 28	10	26 to 28	40	87	31	0	0	360	21	28	2	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	18	83	67	0	360	10	28	7	23	28	6	55
Aberdeen	153	105	52	—	—	28	5	33	78	49	0	23	14	28	7	23	28	5	30
Edinburgh	485	39	31	—	—	27, 28, 1	17	122	29	0	0	23	16	28	11	26	28	9	5
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	27, 28	8	26 to 28, 1	20	69	45	26	0	20	21	27	17	28	28	13	0
Paisley	188	81	15	—	—	27, 28	18	36	102	8	4	11	14	28	10	29	28	10	25
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	28	1	36	84	39	8	349	11	28	16	20	29	3	55
South Shields	72	61	12	—	—	27 to 29	16	54	77	21	0	101	15	27	17	22	27	16	40
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	27, 28	8	27, 28	6	73	78	3	0	—	20	27	22	—	—	—	—
Gorleston	52	42	‡	—	—	27 to 30	48	57	63	0	0	—	17	27	24	23	28	0	25
Shoeburyness	103	90	‡	27, 28	6	27 to 29, 1	19	101	42	0	0	45	21	27	24	29	28	0	35
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	27 to 29	9	76	68	15	0	360	13	28	4	21	29	13	10
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	27	3	84	76	5	0	—	15	27	17	24	27	17	10
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡‡	27	1	27 to 29, 1 to 3	57	82	28	0	0	340	17	27	14	33	27	14	25
Richmond (Kew Obs.)..	82	65	22	—	—	28	2	41	95	28	2	360	11	28	4	19	28	2	50
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	43	92	33	0	225	9	2	13	13	27	20	30
Fleetwood (Cup Anr.) ..	109	44	—	27	2	27 to 30, 1, 2	43	92	31	0	0	23	19	27	20	—	—	—	—
Southport	80	62	48	27, 1, 2	5	27 to 29, 1 to 3	47	100	16	0	0	315	19	27	16	25	2	0	40
Holyhead	60	40	‡	27, 28	12	27 to 29, 1, 2	43	83	27	3	0	349	21	27	19	31	27	18	55
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	28, 2	5	27 to 29, 1 to 3	80	77	6	0	0	360	22	28	3	33	28	3	40
Plymouth	185	88	‡	—	—	27	4	79	73	12	0	—	14	27	14	23	27	15	55
Lyme Regis	556	61	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	28	5	27 to 30, 1, 2	41	92	28	2	0	360	19	28	13	—	—	—	—
Quilty	100	40	‡	—	—	27, 28, 1, 2	43	94	23	8	0	—	15	27	19	23	27	22	0
Cahirciveen (Val. Obs.)	98	41	‡‡	—	—	27, 28, 1, 2	40	78	50	0	0	5	16	28	16	25	27	21	40
Weaver Pt.	160	30	‡‡	27, 28	9	27 to 29, 1, 2	37	92	30	0	0	—	18	28	8	26	28	7	50
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	27, 28	14	27, 28, 30, 1, 2	65	79	10	0	0	337	21	28	3	29	28	16	5

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]

* Above tops of trees.

‡ Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory

** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

EIGHTEENTH WEEK of 1919—April 27th to May 3rd, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	55	28	81·2	74·1	77·5	− 2·7	13	− 22	30	+ 20	6	+ 1	0·93	24	+ 6	4·3	−0·7	28	1007
Eastern.																			
1. SCOTLAND, EAST ...	58	22	81·2	73·7	77·3	− 3·2	13	− 28	32	+ 21	5	+ 1	0·84	21	+ 8	4·9	−0·2	32	1007
2. ENGLAND, N.E.	59	25	82·9	75·1	78·7	− 2·5	29	− 12	18	+ 13	6	+ 2	0·88	22	+ 11	4·7	−1·2	31	1007
3. ENGLAND, EAST ...	61	26	83·2	75·7	79·3	− 2·8	31	− 21	14	+ 9	6	+ 2	1·07	27	+ 17	4·7	−1·7	32	1006
4. MIDLAND COUNTIES ...	60	26	83·1	75·7	79·3	− 2·6	32	− 20	15	+ 8	6	+ 3	0·88	22	+ 10	3·5	−2·1	24	1008
5. ENGLAND, S.E.	58	27	83·5	76·1	79·6	− 3·1	32	− 23	12	+ 10	6	+ 3	1·05	27	+ 17	3·6	−3·0	24	1007
Western.																			
6. SCOTLAND, WEST ...	59	28	82·3	75·3	78·6	− 2·7	25	− 18	17	+ 12	6	+ 2	0·75	19	− 1	4·3	−1·2	29	1008
7. ENGLAND, N.W.	59	24	82·3	76·4	79·2	− 2·5	24	− 20	11	+ 8	6	+ 2	0·91	23	+ 7	4·6	−1·1	31	1009
8. ENGLAND, S.W.	57	28	83·1	76·9	79·8	− 2·5	28	− 22	8	+ 6	7	+ 3	0·87	22	+ 6	3·0	−2·9	21	1011
9. IRELAND, NORTH ...	59	29	82·7	76·2	79·3	− 2·4	27	− 17	12	+ 9	6	+ 1	0·92	23	+ 5	4·6	−0·5	31	1011
10. IRELAND, SOUTH ...	60	31	84·1	77·7	80·8	− 1·7	34	− 18	4	+ 3	6	+ 2	0·51	13	− 5	4·0	−2·5	27	1015
11. ENGLISH CHANNEL ...	58	34	83·7	78·8	81·2	− 2·2	33	− 28	0	0	6	+ 2	0·60	15	+ 2	2·7	−4·5	19	1014

THE SEASON (Spring).—Aggregates, &c., for the Period of 9 Weeks, March 2nd to May 3rd, 1919.

0. SCOTLAND, NORTH ...	61	18	80·1	74·0	76·9	− 1·4	101	− 84	272	+ 70	49	+ 7	9·06	231	+ 37	4·2	+0·2	32	1009
Eastern.																			
1. SCOTLAND, EAST ...	71	11	80·6	73·4	76·8	− 1·6	133	− 95	312	+ 87	35	− 2	4·80	123	+ 8	3·9	−0·5	30	1010
2. ENGLAND, N.E.	69	19	81·8	74·8	78·2	− 1·0	183	− 65	213	+ 52	35	+ 1	4·49	114	+ 26	3·6	−1·2	28	1010
3. ENGLAND, EAST ...	70	22	82·3	75·0	78·5	− 1·2	210	−100	191	+ 30	38	+ 7	4·64	119	+ 34	3·5	−1·5	27	1011
4. MIDLAND COUNTIES ...	70	22	82·2	74·8	78·4	− 1·3	203	−120	217	+ 40	37	+ 7	6·43	163	+ 69	3·6	−0·9	27	1012
5. ENGLAND, S.E.	71	24	82·8	75·7	79·1	− 1·2	237	− 91	149	+ 33	37	+ 7	6·50	164	+ 70	3·7	−1·3	28	1012
Western.																			
6. SCOTLAND, WEST ...	63	20	81·4	74·7	77·9	− 1·4	161	− 87	224	+ 74	40	+ 3	7·00	178	+ 10	4·2	−0·3	32	1011
7. ENGLAND, N.W.	63	19	81·2	75·3	78·2	− 1·4	153	−108	187	+ 58	37	+ 4	7·00	180	+ 59	3·8	−0·8	29	1012
8. ENGLAND, S.W.	71	21	82·5	75·7	79·0	− 1·3	209	−104	155	+ 57	40	+ 7	7·78	198	+ 59	4·6	−0·3	35	1013
9. IRELAND, NORTH ...	62	22	82·1	75·1	78·5	− 1·3	189	− 84	193	+ 72	46	+ 5	5·70	143	+ 3	4·5	+0·2	32	1012
10. IRELAND, SOUTH ...	66	24	83·0	76·0	79·4	− 1·2	237	− 98	155	+ 65	44	+ 8	4·79	122	− 27	4·2	−0·7	32	1015
11. ENGLISH CHANNEL ...	66	30	83·3	78·1	80·6	− 1·0	282	− 93	53	+ 26	42	+ 7	7·05	178	+ 64	5·2	−0·6	40	1014

THE YEAR 1919.—Aggregates, &c., for the Period of 18 Weeks, December 29th, 1918, to May 3rd, 1919.

0. SCOTLAND, NORTH ...	61	11	78·8	73·2	76·0	− 1·3	105	−139	680	+ 158	85	− 3	15·05	384	− 85	2·9	+0·2	27	1007
Eastern.																			
1. SCOTLAND, EAST ...	71	5	78·8	72·6	75·6	− 1·6	133	−158	780	+ 181	72	− 1	10·47	268	+ 26	2·8	−0·4	26	1008
2. ENGLAND, N.E.	69	11	79·8	74·0	76·9	− 1·0	193	−137	578	+ 112	77	+ 9	10·35	264	+ 87	2·6	−0·9	24	1009
3. ENGLAND, EAST ...	70	10	80·2	74·0	77·1	− 1·0	245	−156	580	+ 92	78	+12	10·32	264	+ 90	2·5	−1·1	23	1010
4. MIDLAND COUNTIES ...	70	9	80·0	73·8	76·8	− 1·3	226	−198	628	+ 115	74	+ 9	12·66	321	+121	2·5	−0·7	23	1010
5. ENGLAND, S.E.	71	16	80·9	74·9	77·8	− 1·0	320	−125	451	+ 75	79	+15	13·60	344	+136	2·6	−1·2	24	1010
Western.																			
6. SCOTLAND, WEST ...	63	14	79·9	74·1	77·0	− 1·2	178	−156	539	+ 130	76	− 3	13·89	353	− 40	2·9	−0·2	27	1009
7. ENGLAND, N.W.	63	16	79·8	74·6	77·2	− 1·2	174	−179	494	+ 115	76	+ 6	12·06	307	+ 38	2·8	−0·4	26	1009
8. ENGLAND, S.W.	71	15	80·9	75·2	78·0	− 1·1	291	−166	409	+ 110	83	+12	17·63	449	+133	3·4	−0·2	31	1010
9. IRELAND, NORTH ...	62	22	80·8	74·9	77·8	− 1·0	246	−151	437	+ 101	87	+ 2	11·37	286	+ 26	3·2	+0·1	30	1008
10. IRELAND, SOUTH ...	66	22	81·7	75·6	78·6	− 1·0	347	−170	362	+ 104	85	+ 8	12·24	312	− 29	3·3	−0·2	30	1010
11. ENGLISH CHANNEL ...	66	26	82·3	77·7	80·0	− 0·7	450	−142	137	+ 32	90	+13	18·73	474	+210	3·6	−0·6	33	1011
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: May 9th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 19.

THE NINETEENTH WEEK OF 1919.

SUNDAY, MAY 4TH, TO SATURDAY, MAY 10TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

Barometric pressure was uniformly high in the north and low to the west and south of the British Isles. The general character of the weather was rather warm and dry, but with a deficiency of sunshine. High day temperatures at the beginning of the week were followed by some days with very low maxima; in Scotland E. and England N.E. about the 7th and 8th the readings were below 280 a., and at Balmoral the thermometer did not exceed 279 a.; the hottest day of the week was very generally the 10th, when the thermometer rose to about 294 a. in most parts of Great Britain, the absolute highest being 296 a. in the Midland Counties, at Bawtry, and 297 a. in Scotland W., at Kilmarnock. The mean temperature was below the normal in Scotland E. and there was a slight deficiency in Ireland, but all other districts had an excess of warmth. Rainfall was about normal in Scotland E. and the Midlands, but less elsewhere; there were no heavy falls of rain, and at some stations in England E. the week was rainless. Slight thunderstorms occurred over the southern half of England on Friday night and in the more northern districts on Saturday. Some days were very cloudy, while others were brilliantly fine, especially late in the week. Fog was very prevalent in the neighbourhood of the Orkneys and in the Channel Islands. Solar halos were observed at Oxford on the 4th and 9th, at Greenwich, Totland Bay and Swanage on the 8th, and at Birmingham, Tenbury and Kew on the 9th; lunar halos were observed at Oxford on the 4th, at Greenwich and Kew on the 8th, and at Birmingham on the 9th.

Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.*		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	25	4·9	10	6·1	—	—	9	2·5	13	4·7	14	4·1	13	4·6	17	5·9
North	1	1·0	14	2·1	—	—	8	1·9	15	3·4	12	3·8	12	2·8	5	2·7
West	3	3·1	0	—	—	—	6	1·1	9	2·2	9	3·0	5	3·7	7	4·4
East	25	6·7	24	2·9	—	—	19	3·2	17	4·9	14	4·4	21	2·8	17	3·3
Calm	0	—	1	—	—	—	2	—	0	—	0	—	2	—	4	—

* For Scotland N. (Deerness) the week ends at midnight on Friday.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Unusual	Unusual	Unusual	Moderate	Unusual	Unusual	Moderate	Moderate	Unusual
	Rainfall ...	Light	Moderate	Moderate	Light	Moderate	Moderate	Moderate	Moderate	Light	Moderate	Moderate	Moderate
	Sunshine ...	Scanty	Very scanty	Scanty	Moderate	Scanty	Moderate	Scanty	Scanty	Scanty	Scanty	Moderate	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SPRING. 10 weeks from March 2nd, 1919.	Warmth ...	1, 4, 5	1, 4, 5	2, 4, 4	2, 3, 5	1, 4, 5	2, 3, 5	1, 4, 5	2, 3, 5	1, 4, 5	0, 4, 6	0, 4, 6	1, 4, 5
	Rainfall ...	5, 2, 3	4, 5, 1	5, 1, 4	3, 5, 2	5, 4, 1	4, 5, 1	3, 5, 2	5, 5, 0	5, 2, 3	2, 8, 0	0, 8, 2	4, 5, 1
	Sunshine ...	3, 6, 1	2, 4, 4	0, 4, 6	1, 2, 7	1, 2, 7	1, 3, 6	2, 3, 5	2, 4, 4	3, 4, 3	1, 5, 4	1, 5, 4	2, 3, 5

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(23254—19.) Wt 162—833/512. 625. 5/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.
	Ft.	°F.		°F		°F.	°F.	°F.	°F.		in	mm.	mm.
0. SCOTLAND, N.													
a. Islands.. a Lerwick	54	54	10th	38	4th	49·0	41·7	45·1	+ 1·6	2	0·12	3	- 10
a Houton Bay, Orkney	520	51	10th	36	4th	46·9	39·7	43·1	—	1	0·12	3	- 9
a Stornoway	51	65	10th	36	4th	54·3	41·7	47·6	+ 2·0	2	0·35	9	- 7
a Castlebay, Barra I. ..	37	61	10th	41	4th	52·4	43·6	47·7	—	4	0·41	10	—
b. Main-land. a Wick	81	51	10th	38	4th	46·7	41·9	44·2	- 1·0	2	0·13	3	- 10
a Strathpeffer	125	69	10th	30	4th	56·1	41·3	48·3	+ 1·2	1	0·05	1	- 10
p Glencarron	580	—	—	—	—	—	—	—	—	—	—	—	—
a Fort Augustus.. ..	68	—	—	—	—	—	—	—	—	—	—	—	—
p Fort William	171	72	10th	33	4th	60·4	42·7	51·0	+ 3·0	4	0·33	8	- 15
1. SCOTLAND, E.													
a Nairn	82	73	10th	29	4th	56·4	39·0	47·2	0·0	5	0·15	4	- 7
p Gordon Castle	101	66	10th	33	4th	55·1	39·6	46·9	- 0·6	2	0·11	3	- 9
a Aberdeen	46	56	10th	34	4th	49·0	40·9	41·7	- 2·1	3	0·17	4	- 10
a Balmoral	930	65	10th	23	4th	50·0	34·9	42·0	- 2·5	6	0·71	18	+ 4
a Crieff	432	61	10th	32	4th	51·9	39·1	45·1	- 3·3	6	1·01	26	+ 12
a Dundee	244	53	9,10	31	4th	49·6	38·4	43·7	- 4·1	6	0·62	16	+ 4
a Leith	30	61	5th	41	4,9	52·1	42·9	47·2	- 1·3	5	0·56	14	+ 3
p Edinburgh	441	61	5th	39	4,9	51·0	41·3	45·9	- 1·1	4	0·41	11	+ 1
a West Linton	769	68	10th	32	4th	55·3	39·3	46·8	+ 1·8	5	0·49	12	—
p Marchmont	498	60	10th	37	4th	51·7	41·0	46·0	- 0·7	5	0·79	20	+ 6
6. a. SCOTLAND, W.													
a Ford (Argyll)	149	71	10th	32	4th	57·7	41·4	49·1	—	3	0·63	16	—
p Glasgow Observatory	180	63	10th	41	9th	55·9	43·4	49·3	+ 0·4	2	0·27	7	- 7
p Rothesay	200	64	10th	39	4th	54·4	41·9	47·8	- 1·1	6	0·72	18	+ 1
a Kilmarnock	90	75	10th	38	9th	60·4	41·0	51·7	+ 3·4	4	0·38	10	- 4
a Colmonell	170	73	10th	33	9th	60·6	42·7	51·1	+ 2·7	4	0·37	9	- 5
p Cally, Gatehouse ..	120	74	10th	39	9,10	59·9	42·7	50·8	+ 2·5	4	0·93	24	+ 7
p Dumfries	180	72	10th	38	9th	57·6	43·0	49·9	+ 0·6	6	0·44	11	- 3
a Eskdalemuir	794	68	10th	35	4th	53·7	38·4	45·6	—	6	1·14	29	—
b. I. OF MAN p Douglas	277	65	10th	42	8,9	55·1	44·9	49·7	+ 1·0	4	0·17	4	- 10
2. ENGLAND, N.E													
a North .. a Alnwick Castle ..	210	60	4th	34	4th	50·0	40·4	44·9	- 2·3	3	0·19	5	- 8
a Tynemouth	71	58	4th	41	4,6,9	48·6	41·9	45·1	- 2·1	6	0·36*	9	- 2
p Durham	336	63	10th	37	4th	54·3	41·6	47·6	+ 0·1	5	0·39	10	- 1
p Rounton	249	70	10th	38	4,7	56·9	41·6	48·8	+ 1·5	4	0·20	5	- 6
a West Witton	605	68	10th	38	4th	55·3	40·7	47·6	—	6	0·97	25	—
p Scarborough	100	61	4th	40	9th	50·9	42·0	46·2	- 2·1	2	0·33	8	- 3
p York	58	70	10th	41	9th	59·7	44·0	51·4	+ 1·4	5	0·23	6	- 5
b. South .. a Spurn Head	26	58	4th	40	4th	51·4	42·9	46·9	- 1·8	2	0·13	3	- 5
a Lincoln	58	71	10th	41	9th	62·6	44·1	52·8	+ 2·1	1	0·01	0	- 10
a Fulbeck	180	71	10th	40	9th	62·9	43·7	52·7	+ 2·6	2	0·39	10	- 1
3. ENGLAND, E.													
p Cromer	196	72	10th	43	4,7-9	59·1	44·3	51·3	+ 2·2	1	0·04	1	- 8
a Little Massingham ..	280	72	10th	39	8th	63·4	41·7	51·9	+ 2·2	1	0·01	0·3	- 11
a Yarmouth	13	64	10th	44	4th	54·1	45·6	49·6	+ 0·8	2	0·47	12	+ 2
a Norwich	93	71	10th	40	8th	63·0	43·9	52·9	+ 2·6	3	0·13	3	- 8
a Geldeston	37	70	10th	38	8th	61·4	43·0	51·7	+ 2·1	2	0·33	9	- 1
p Cambridge	41	72	9th	38	6th	65·9	41·7	53·1	+ 2·3	0	0·00	0	- 10
a Clacton-on-Sea ..	54	60	9th	44	5th	54·7	46·1	50·1	+ 0·4	0	0·00	0	- 8
a Rothamsted	424	68	9th	41	8,9	61·7	44·4	52·5	+ 2·7	2	0·14	4	- 7
p Tottenham	51	70	9th	43	8th	65·6	46·4	55·4	—	1	0·12	3	—
4. MIDLAND COUNTIES.													
a North .. a Harrogate	479	69	10th	40	4,7-9	57·4	41·7	49·1	+ 1·4	5	0·62	16	+ 6
p Sheffield	429	70	10th	42	7-9	59·3	44·3	51·4	—	2	0·93	24	—
p Buxton	987	—	—	—	—	—	—	—	—	—	—	—	—
a Bawtry	65	74	10th	43	8,10	62·4	45·7	53·6	+ 3·8	2	0·25	6	- 2
a Nottingham	82	71	10th	42	8th	61·7	44·6	52·6	+ 2·6	2	0·64	16	+ 7
b. East .. p Birmingham, Edgbn.	535	67	9th	41	8th	60·6	45·1	52·4	+ 2·4	3	0·54	14	+ 4
a Raunds	203	71	9,10	41	8,9	64·7	44·0	53·7	+ 3·2	2	0·74	19	+ 8
p Oxford	208	69	9th	41	8th	6·9	45·4	53·2	+ 2·2	1	0·32	8	- 1
c. West .. a Cheadle (N. Staffs.) ..	646	68	10th	35	8th	59·1	43·3	50·7	+ 2·1	3	0·88	17	+ 7
p Tenbury	313	68	9th	35	8th	60·6	45·1	52·4	+ 2·9	3	0·19	5	- 3
p Ross-on-Wye	201	68	9th	38	8th	60·3	46·0	52·7	+ 1·9	2	0·10	3	- 7
a Clifton	228	71	9th	40	8th	60·0	47·4	53·3	+ 1·1	1	0·09	2	- 10
5. ENGLAND, S.E.													
a Marlborough	421	69	9th	37	9th	60·0	44·7	51·9	+ 2·2	4	0·66	17	+ 7
p Salisbury (Wilton) ..	180	72	9th	42	8th	61·9	46·1	53·5	+ 2·2	3	0·39	10	—
a Wisley, Surrey ..	150	72	9th	40	9th	63·6	45·1	53·8	+ 2·7	1	0·03	1	- 7
a Tunbridge Wells ..	354	70	9th	41	8th	63·6	44·3	53·4	+ 2·6	?	?	?	?
a Margate	51	65	10th	44	5th	58·7	46·3	52·1	+ 0·9	1	0·01	0·2	- 8
a Dungeness	21	61	10th	41	8th	57·1	45·0	50·7	+ 0·1	0	0·00	0	- 6
p St. Leonards	178	68	9th	42	8th	61·9	46·9	54·0	+ 2·8	1	0·02	1	- 7
p Southampton	64	72	9th	43	8th	62·1	47·9	54·6	+ 1·7	3	0·21	5	- 5
a Ventnor	59	64	8,9	44	8th	59·4	48·7	53·7	+ 1·6	3	0·10	3	- 6
LONDON. a Richmond (Kew Obs.)	18	69	9th	43	9th	64·0	46·6	54·8	+ 2·9	1	0·03	1	- 8
a Westminster	27	70	9th	45	8th	64·2	47·9	55·6	+ 3·0	1	0·11	3	- 5
ag Greenwich	149	70	9th	40	9th	64·7	44·9	54·2	+ 2·8	1	0·12	3	- 6
a Hampstead	450	68	9th	42	8th	62·1	45·6	53·4	—	1	0·07	2	—
ag Camden Square ..	110	73	9th	43	8th	67·0	46·3	56·0	+ 2·6	1	0·06	2	- 7
7. a. ENGLAND, N.W.													
p Aspatria (Mealsgate)	487	70	10th	36	9th	57·0	41·1	48·6	+ 0·3	6	0·36	9	- 4
p Newton Rigg	559	70	10th	37	9th	58·1	41·0	49·0	+ 1·2	5	0·79	20	+ 7
p Stonyhurst	375	69	10th	40	8th	58·1	44·4	50·8	+ 2·0	6	0·80	20	+ 5
p Blackpool	66	71	10th	40	8th	59·4	45·1	51·8	+ 2·7	5	0·28	7	- 5
a Southport	37	73	10th	38	8th	61·4	45·0	52·7	+ 3·1	4	0·16	4	- 7
a Liverpool (Bidston) ..	188	71	10th	40	8,9	60·1	44·6	51·9	+ 1·7	3	0·13	3	- 7
a Hawarden Bridge ..	22	70	10th	40	8th	61·1	45·9	53·0	+ 2·3	1	0·05	1	- 9
p Mancnester (Whit. Pk.)	126	72	10th	43	8th	62·0	46·4	53·7	+ 2·8	3	0·69	17	+ 6
b. NORTH WALES.													
p Llandudno	16	71	10th	41	9th	59·6	45·7	52·2	+ 1·9	3	0·06	2	- 8
a Holyhead ..	15	65	10th	43	8th	57·0	45·1	50·7	+ 1·4	3	0·16	4	- 6
a Beddgelert	309	70	10th	40	8th	59·9	45·1	52·1	—	4	0·73	19	—
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—

STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.
	hr.	hr.	°/c.		°F.	°F.	°F	°F	°F.
Houton Bay ..	2·2	- 3·3	13	*	*	*	*	*	*
Stornoway ..	5·3	- 0·6	32	*	*	*	*	*	*
Castlebay ..	4·7	—	29	*	*	*	*	*	*
Nairn	2·8	—	17	*	*	*	*	*	*
Gordon Castle..	3·4	—	21	*	*	*	*	*	*
Aberdeen ..	2·5	- 3·4	15	1	23	*	*	43·3	-1·6
Balmoral ..	*	*	*	2	19	*	*	*	*
Crathes	2·6	- 2·8	16	1	21	45·0	-2·8	43·3	-1·9
Dundee	1·8	—	11	1	26	45·1	*	*	*
Leith	—	—	—	0	35	*	*	*	*
Edinburgh ..	1·6	- 3·9	10	0	32	*	*	*	*
West Linton ..	2·5	—	16	1	27	*	*	*	*
Marchmont ..	1·4	- 4·2	9	*	*	*	*	*	*
Ford (Argyll) ..	*	*	*	2	22	47·1	—	43·7	—
Glasgow.. ..	2·8	- 2·1	18	0	36	*	*	*	*
Rothesay ..	3·9	—	25	0	32	48·0	—	45·4	-1·7
Kilmarnock	4·9	—	31	*	*	48·2	—	44·4	—
Colmonell ..	*	*	*	1	28	*	*	*	*
Dumfries ..	3·7	—	24	0	33	47·3	-3·0	44·5	-3·7
Eskdalemuir ..	3·4	—	22	0	31	*	*	*	*
Douglas	5·5	- 1·3	36	0	38	*	*	*	*
Cockle Park ..	1·8	- 4·0	12	1	28	45·1	-3·0	44·3	-1·7
Durham ..	2·4	- 2·9	16	1	26	*	*	*	*
Rounton ..	*	*	*	2	26	47·4	*	*	*
West Witton ..	*	*	*	0	33	46·9	—	42·1	—
Scarborough† ..	2·2	- 3·9	14	*	*	*	*	42·3	—
York	2·8	- 2·6	18	—	—	48·1	-1·6	45·3	-1·9
Spurn Head ..	3·4	—	22	*	*	*	*	*	*
Lincoln	*	*	*	0	37	49·6	-1·0	45·5	-1·9
Fulbeck* ..	4·7	- 1·7	21	*	*	—	—	—	—
Skegness ..	5·5	- 1·2	36	*	*	*	*	*	*
Cromer	6·9	+ 0·5	45	*	*	*	*	*	*
Lit. Massingham	6·4	+ 0·1	42	*	*	*	*	*	*
Yarmouth ..	8·2	—	54	0	40	52·1	-1·6	48·3	-2·7
Norwich ..	6·8	—	45	0	33	50·5	*	*	*
Geldeston ..	7·5	+ 0·7	50	*	*	*	*	*	*
Cambridge ..	5·5	- 0·8	36	0	33	50·9	-1·7	46·9	-2·9
Clacton	6·4	- 0·9	42	0	34	50·0	-1·8	47·9	-2·3
Rothamsted ..	4·7	- 1·5	31	1	30	48·4	*	*	*
Tottenham ..	4·7	—	31	0	39	*	*	47·1	-3·1
Harrogate ..	2·6	- 3·1	17	0	35	46·8	-0·9	45·2	-1·3
Sheffield.. ..	2·6	- 2·8	17	0	36	47·2	-1·8	43·6	-2·1
Buxton	—	—	—	—	—	—	—	—	—
Worksop ..	3·2	- 2·1	21	0	37	49·9	—	46·4	—
Nottingham ..	3·3	- 2·5	22	0	38	49·1	-1·7	44·7	-2·5
Birmingham ..	3·9	- 0·9	26	0	36	46·5	-1·2	44·0	-2·1
Raunds	5·4	—	36	0	32	47·9	—	45·6	*
Oxford	4·3	- 1·9	28	0	35	*	*	*	*
Malvern ..	4·4	—	29	0	34	49·9	—	46·2	—
Cheadle	*	*	*	2	29	*	*	*	*
Tenbury	*	*	*	1	30	49·9	—	—	—
Ross-on-Wye ..	3·5	—	23	0	31	—	—	—	—
Clifton	2·6	—	17	0	39	*	*	*	*
Worthing ..	7·3	0·0	49	0	41	52·7	-1·1	47·9	-2·5
Marlborough ..	3·4	- 2·4	23	1	30	51·2	—	48·1	—
Salisbury	*	*	*	0	39	52·0	*	*	*
Wisley	4·5	- 1·9	30	1	28	50·0	-2·3	46·2	-3·1
Tunbridge Wells	5·8	- 0·9	39	0	33	51·0	-1·2	46·9	—
Margate	7·7	+ 1·2	51	0	36	51·8	+0·3	48·1	-1·0
Folkestone ..	8·7	—	58	*	*	*	*	45·4	—
St. Leonards ..	9·2	+ 1·8	61	0	38	52·3	—	47·4	—
Southampton ..	4·4	- 2·4	29	0	37	*	*	*	*
Ventnor	5·8	- 1·2	39	*	*	*	*	*	*
Richmond ..	4·4	- 1·9	29	1	30	50·5	-1·7	46·4	-2·7
Westminster ..	4·5	- 0·8	30	0	40	*	*	*	*
Greenwich ..	5·6	- 0·1	37	1	26	*	*	*	*
Hampstead ..	5·2	—	35	0	33	*	*	*	*
Camden Square ..	4·3	- 1·2	29	0	40	*	*	*	*
Aspatria.. ..	3·8	- 2·1	25	0	32	47·6	-2·8	44·8	-2·5
Newton Rigg ..	4·2	- 1·9	27	2	29	48·1	-1·2	44·9	-1·1
Stonyhurst ..	3·7	- 2·1	24	0	33	*	*	*	*
Blackpool ..	5·1	- 1·8	33	0	32	50·0	—	46·1	—
Southport ..	5·1	- 1·6	33	1	29	52·9	+0·4	49·1	-0·9
Hoylake ..	5·5	- 0·6	36	*	*	*	*	*	*
Liverpool ..	5·3	—	34	0	35	*	*	*	*
Manchester(City	4·2	- 0·8	27	0	40	48·2	-1·4	46·2	-1·7
Whitworth Park	4·3	- 0·6	28	*	*	*	*	*	*
Llandudno ..	6·1	- 0·6	40	*	*	*	*	*	*
Holyhead ..	6·8	—	44	0	39	*	*	*	*
Aberdovey ..	—	—	—	*	*	*	*	*	*

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.				Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature					
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.			Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft		Earth 4 ft.	
																		Ground Frosts.	Lowest Reading.	Mean.	Deviation from average.	Mean	Deviation from average
8. *a*, SOUTH WALES.	Ft.	°F.		°F.		°F.	°F.	°F	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
a Aberystwyth	59	69	9th	41	7th	59·7	47·3	53·1	—	3	0·17	4	—	Aberystwyth ..	5·9	- 0·5	39	•	•	•	•	•	•
a Rhayader	757	65	9th	34	8th	58·7	43·4	50·6	—	2	0·07	2	—	Rhayader ..	4·9	—	32	2	26	•	•	•	•
a St. Ann's Head	149	65	9th	42	8th	55·7	45·4	50·2	+ 0·9	2	0·09	2	- 8	St. Ann's Head	5·5	- 1·5	36	•	•	•	•	•	•
p Cardiff	202	68	9th	40	8th	59·3	46·0	52·3	+ 1·7	1	0·08	2	- 16	Cardiff	4·0	—	26	0	33	51·3	-1·1	46·9	-2·1
b, ENGLAND, S.W.																							
a Bath	66	73	9th	41	8th	61·6	47·4	54·1	+ 2·9	2	0·11	3	- 7	Bath	•	•	•	—	—	51·4	-1·3	48·0	-1·8
a Shaftesbury	722	68	9th	39	8th	58·6	44·9	51·3	+ 1·6	3	0·24	6	- 5	Shaftesbury ..	•	•	•	•	•	49·8	•	47·1	•
a Arlington	613	69	9th	38	7th	59·6	45·5	52·1	+ 2·8	2	0·15	4	- 11										
a Newquay	190	65	9th	45	7-9	58·6	46·6	52·2	+ 1·5	5	0·32	8	- 1	Newquay ..	6·5	- 0·7	43	0	38	53·0	•	49·2	•
a Cullompton	202	72	9th	42	7th	63·1	46·6	54·4	+ 3·2	2	0·20	5	- 6	Cullompton ..	4·4	- 2·0	29	0	37	52·8	•	•	•
a Portland Bill	19	58	7, 8	44	9th	55·3	45·7	50·2	- 0·3	4	0·16	4	- 4	Weymouth ..	3·1	—	21	•	•	•	•	•	•
p Plymouth	116	63	9th	44	7, 8	59·1	48·0	53·2	+ 1·4	3	0·21	5	- 6	Plymouth ..	5·2	- 1·8	35	0	38	53·1	-0·9	49·2	•
a Falmouth	167	61	10th	43	6th	56·7	46·6	51·4	+ 0·4	3	0·48	12	0	Falmouth ..	5·9	- 1·6	40	0	36	54·3	•	51·4	•
9. IRELAND, N.																							
a West .. *a* Malin Head	208	65	10th	42	4th	55·6	43·6	49·2	+ 0·8	1	0·12	3	- 7	Malin Head ..	6·7	—	43	•	•	•	•	•	•
a Blacksod Point ..	327	60	10th	40	9th	54·3	41·9	47·7	- 2·0	3	1·10	28	+ 13	Markree Castle	4·3	- 1·6	28	2	26	50·1	-2·1	47·1	-1·6
p Markree Castle ..	122	62	10th	32	7th	58·7	41·9	49·8	+ 0·9	4	0·49	12	- 2										
b, East .. *p* Armagh	196	67	10th	35	8th	59·0	41·7	49·8	+ 0·5	0	0·00	0	- 13	Armagh	3·9	- 1·9	25	3	27	49·3	-2·0	47·0	-1·5
a Donaghadee	101	62	10th	41	6, 9	54·7	42·3	48·1	- 0·8	4	0·21	5	- 7										
10. IRELAND, S.																							
p Dublin, City	47	63	4th	41	7, 8	57·6	45·1	51·0	- 0·2	1	0·15	4	- 7	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
a Birr Castle	175	62	4, 9	34	7th	58·7	41·4	49·5	- 0·1	3	0·06	1	- 11	Phœnix Park ..	5·8	- 0·3	38	3	26	•	•	•	•
a Kilkenny	212	65	9th	36	6th	58·4	42·6	50·0	- 0·2	3	0·19	5	- 7	Dublin City ..	•	•	•	0	35	•	•	•	•
a Waterford	120	65	9th	38	8th	57·3	42·8	49·7	- 1·2	3	0·24	6	- 6	Birr Castle ..	4·9	- 0·6	32	2	28	•	•	•	•
p Seskin, Carrick-on-Suir	541	66	9th	36	8, 9	58·3	41·0	49·1	—	3	0·89	23	—	Seskin	4·9	—	32	2	26	•	•	•	•
a Cahir	199	64	9th	34	7th	58·6	41·4	49·5	- 0·6	4	0·37	9	—										
a Foynes	50	63	10th	39	7th	59·4	43·7	51·1	+ 0·2	4	0·32	8	- 4										
a Cahirciveen (Val. Obs.)	30	58	8, 9	41	8th	54·0	45·3	49·4	- 1·6	4	1·29	33	+ 16	Cahirciveen ..	5·9	- 0·2	39	1	30	•	•	•	•
a Killarney	174	63	8th	36	7th	60·1	42·8	50·9	+ 0·1	4	0·70	18	+ 2	Ballinacurra ..	5·4	- 0·8	36	•	•	•	•	•	•
a Roche's Point	32	59	9th	41	8th	55·7	44·9	50·0	- 0·6	5	0·53	13	0										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	57	10th	46	6, 7	55·1	47·7	51·2	- 0·1	4	0·07	2	- 5	Scilly	6·5	- 1·1	44	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	68	9th	45	5th	62·6	48·9	55·3	+ 2·5	3	0·20	5	- 2	St. Heliers ..	6·3	- 1·8	42	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	67	9th	48	7, 8	60·7	49·6	54·8	+ 2·0	2	0·14	4	- 3	Guernsey† ..	6·9	- 1·4	46	0	46	54·0	-0·2	49·4	-2·1

†The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, May 10th, 1919.

DISTRICT AND STATION.	Height.			Distribution of Wind.†								Extreme Velocities.							
				More than 17 m/s or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.			
	Above Mean Sea Level	Above Ground.	Above Building.	Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Veer from N.	Speed.	Mid Time.		Speed.	Date		
														day.	hr.		d.	h.	m.
0. SCOTLAND, N.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.			m/s.			
Deerness (Cup Anr.)** ..	188	16	5	—	—	4 to 7	46	64	57	1	0	135	16	6	11	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	13	108	47	0	113	7	6	1	14	6	1	30
Aberdeen	153	105	52	—	—	—	—	45	70	53	0	135	8	5	18	15	5	17	25
Edinburgh	486	39	31	—	—	—	—	38	119	11	0	180	11	4	14	17	4	12	5
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	—	—	61	95	12	0	180	9	4	19	14	5	20	45
Paisley	188	81	15	—	—	—	—	23	142	3	0	180	8	4	21	15	4	21	15
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	11	65	92	0	157	8	5	18	14	5	17	55
South Shields	72	61	12	—	—	5	4	35	95	34	0	157	13	5	18	17	5	17	55
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	6	2	67	98	1	0	—	12	6	19	—	—	—	—
Gorleston	52	42	‡	—	—	—	—	62	106	0	0	—	9	7	7	11	7	7	25
Shoeburyness	103	90	‡	—	—	—	—	68	73	1	26	79	10	9	14	13	9	15	5
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	19	114	35	0	90	9*	9	16	14	9	16	5
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	33	106	29	0	—	9	9	11	16	9	12	15
S. Farnboro' (Pyestk Tr)	443	152	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	9	104	55	0	90	8	9	13	12	9	13	20
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	—	98	70	0	79	5	9	13	10	10	17	15
Fleetwood (Cup Anr.) ..	109	44	—	—	—	—	—	42	115	7	4	101	9	9	15	—	—	—	—
Southport	80	62	48	—	—	9	3	106	57	2	0	101	11	9	14	16	9	14	25
Holyhead	60	40	‡	—	—	7, 9	7	110	44	7	0	67	12	7	8	15	7	8	5
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	4, 5, 8, 9,	19	94	42	13	0	67	15	9	6	20	9	9	5
Plymouth	185	88	2	—	—	—	—	34	112	22	0	—	9	9	12	17	9	12	15
Lyme Regis	556	61	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	—	—	52	104	12	0	169	10	5	17	—	—	—	—
Quilty	100	40	‡	—	—	4 to 6	33	66	60	9	0	—	15	5	15	21	5	14	45
Cahirciveen (Val. Obs.)	98	41	‡	—	—	4, 5, 10	33	63	53	19	0	180	13	5	13	21	5	1	25
Weaver Pt.	160	30	‡	—	—	4, 5, 9	30	86	49	3	0	—	14	9	13	20	9	11	5
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	59	91	18	0	101	11	9	9	15	9	9	20

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]

* Above tops of trees.

‡ Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory

** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

NINETEENTH WEEK of 1919—May 4th to May 10th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	72	30	84·8	78·5	81·4	+ 0·3	37	− 5	0	− 7	2	− 2	0·20	5	− 12	3·8	−1·4	23	1019
Eastern.																			
1. SCOTLAND, EAST ...	73	23	84·5	77·2	80·6	− 0·8	36	− 11	7	0	5	+ 1	0·50	13	0	2·1	−3·5	13	1019
2. ENGLAND, N.E.	71	34	85·9	78·8	82·2	+ 0·1	46	− 3	0	− 3	3	0	0·25	6	− 5	3·2	−2·8	21	1018
3. ENGLAND, EAST ...	72	38	89·1	79·7	84·2	+ 1·3	71	+ 11	0	− 3	1	− 2	0·14	4	− 6	6·1	−0·3	40	1017
4. MIDLAND COUNTIES ...	74	35	89·1	80·1	84·3	+ 1·5	73	+ 10	0	− 5	2	− 1	0·42	11	+ 1	3·3	−2·5	22	1016
5. ENGLAND, S.E.	72	37	89·2	80·9	84·8	+ 1·2	79	+ 13	0	− 2	2	− 1	0·16	4	− 5	6·1	+0·1	41	1015
Western.																			
6. SCOTLAND, WEST ...	75	32	87·3	79·1	82·9	+ 0·6	55	+ 1	0	− 3	4	0	0·49	12	− 4	4·2	−1·7	27	1017
7. ENGLAND, N.W.	73	36	88·2	79·9	83·8	+ 1·2	66	+ 11	0	− 2	4	0	0·36	9	− 3	4·7	−1·3	31	1015
8. ENGLAND, S.W.	73	34	87·9	80·8	84·1	+ 0·8	70	+ 17	0	− 1	2	− 1	0·18	5	− 7	5·5	−1·2	37	1014
9. IRELAND, NORTH ...	67	32	86·8	78·6	82·4	− 0·2	49	− 5	0	− 2	3	− 1	0·33	8	− 5	4·1	−1·8	27	1013
10. IRELAND, SOUTH ...	65	34	87·3	79·3	83·1	− 0·2	57	− 5	0	− 1	3	− 1	0·43	11	− 2	5·5	−0·5	36	1013
11. ENGLISH CHANNEL ...	68	45	88·3	82·3	85·1	+ 1·0	83	+ 13	0	0	3	0	0·14	4	− 4	6·6	−1·5	44	1014

THE SEASON (Spring).—Aggregates, &c., for the Period of 10 Weeks, March 2nd to May 10th, 1919.

0. SCOTLAND, NORTH ...	72	18	80·6	74·4	77·4	− 1·2	138	− 89	272	+ 63	51	+ 5	9·26	236	+ 25	4·2	+0·1	31	1010
Eastern.																			
1. SCOTLAND, EAST ...	73	11	81·0	73·8	77·2	− 1·5	169	−106	319	+ 87	40	− 1	5·30	136	+ 8	3·8	−0·7	28	1011
2. ENGLAND, N.E.	71	19	82·2	75·2	78·6	− 0·9	229	− 68	213	+ 49	38	+ 1	4·74	120	+ 21	3·6	−1·3	27	1011
3. ENGLAND, EAST ..	72	21	83·0	75·4	79·1	− 0·9	281	− 89	191	+ 27	39	+ 5	4·78	123	+ 28	3·8	−1·3	29	1012
4. MIDLAND COUNTIES ...	74	22	82·9	75·3	79·0	− 1·0	276	−110	217	+ 35	39	+ 6	6·85	174	+ 70	3·5	−1·1	27	1012
5. ENGLAND, S.E.	72	24	83·5	76·2	79·7	− 0·9	316	− 78	149	+ 31	39	+ 6	6·66	168	+ 65	3·9	−1·3	30	1012
Western.																			
6. SCOTLAND, WEST ...	75	20	82·0	75·1	78·4	− 1·2	216	− 86	224	+ 71	44	+ 3	7·49	190	+ 6	4·2	−0·5	32	1012
7. ENGLAND, N.W.	73	19	81·9	75·8	78·7	− 1·2	219	− 97	187	+ 56	41	+ 4	7·36	189	+ 56	3·9	−0·8	30	1012
8. ENGLAND, S.W.	73	21	83·0	76·2	79·5	− 1·1	279	− 87	155	+ 56	42	+ 6	7·96	203	+ 52	4·6	−0·5	35	1013
9. IRELAND, NORTH ...	67	22	82·6	75·5	78·9	− 1·2	238	− 89	193	+ 70	49	+ 4	6·03	151	− 2	4·1	−0·4	31	1012
10. IRELAND, SOUTH ...	66	24	83·5	76·4	79·8	− 1·1	294	−103	155	+ 64	47	+ 7	5·22	133	− 29	4·3	−0·7	33	1014
11. ENGLISH CHANNEL ...	68	31	83·8	78·5	81·1	− 0·8	365	− 80	53	+ 26	45	+ 7	7·19	182	+ 60	5·3	−0·7	41	1014

THE YEAR 1919.—Aggregates, &c., for the Period of 19 Weeks, December 29th, 1918, to May 10th, 1919.

0. SCOTLAND, NORTH ...	72	11	79·1	73·5	76·3	− 1·2	142	−144	680	+ 151	87	− 5	15·25	389	− 97	3·0	+0·2	27	1008
Eastern.																			
1. SCOTLAND, EAST ...	73	5	79·1	72·8	75·9	− 1·5	169	−169	787	+ 181	77	0	10·97	281	+ 26	2·7	−0·6	25	1009
2. ENGLAND, N.E.	71	11	80·1	74·2	77·1	− 1·0	239	−140	578	+ 109	80	+ 9	10·60	270	+ 82	2·6	−1·0	23	1009
3. ENGLAND, EAST ...	72	10	80·7	74·3	77·5	− 0·9	316	−145	580	+ 89	79	+10	10·46	268	+ 84	2·7	−1·0	24	1010
4. MIDLAND COUNTIES ...	74	9	80·5	74·1	77·2	− 1·2	299	−188	628	+ 110	76	+ 8	13·08	332	+122	2·6	−0·7	23	1010
5. ENGLAND, S.E.	72	16	81·3	75·2	78·2	− 0·9	399	−112	451	+ 73	81	+14	13·76	348	+131	2·8	−1·0	25	1010
Western.																			
6. SCOTLAND WEST ...	75	14	80·3	74·4	77·3	− 1·1	233	−155	539	+ 127	80	− 3	14·38	365	− 44	3·0	−0·2	27	1009
7. ENGLAND, N.W.	73	16	80·3	74·9	77·5	− 1·1	240	−168	494	+ 113	80	+ 6	12·42	316	+ 35	2·9	−0·5	26	1009
8. ENGLAND, S.W.	73	15	81·3	75·5	78·3	− 1·1	361	−149	409	+ 109	85	+11	17·81	454	+126	3·5	−0·2	31	1010
9. IRELAND, NORTH ...	67	22	81·1	75·1	78·0	− 1·0	295	−156	437	+ 99	90	+ 1	11·70	294	− 31	3·3	+0·1	30	1008
10. IRELAND, SOUTH ...	66	22	82·0	75·8	78·9	− 0·9	404	−175	362	+ 103	88	+ 7	12·67	323	− 31	3·4	−0·2	31	1010
11. ENGLISH CHANNEL ...	68	26	82·6	77·9	80·2	− 0·7	533	−129	137	+ 32	93	+13	18·87	478	+206	3·8	−0·6	34	1011
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: May 16th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 20.

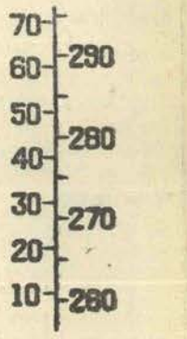
THE TWENTIETH WEEK OF 1919.

SUNDAY, MAY 11TH, TO SATURDAY, MAY 17TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

Throughout the week pressure was low off the Irish coasts and high over the Continent, so that gentle breezes from southerly quarters prevailed over the British Isles. There was brilliantly fine weather in England, but occasional showers were experienced in most places. Temperature was above the normal in all Districts, the mean values ranged from 288 a. in Districts 4 and 7 to 285 a. in Districts 0 and 1. The highest maxima occurred on the middle days of the week and were in many places as high as 299 a. The lowest screen minimum was recorded at Balmoral on the 17th, the reading being as low as 274 a. "Grass minima" of about 271 a. were registered at Balmoral, Durham and Rhayader. Rainfall was below the normal in all except the Irish Districts. Thunderstorms were reported on the 11th and 14th in many parts of the country. On the 14th, 14mm. of rain fell at Plymouth in thirty-five minutes, and amounts varying from 20mm. to 48mm. were measured on the same day in the South of Ireland, 48mm. being recorded at Cahir (Tipperary). The excess of bright sunshine was most marked in England East. The general mean for this District was 9·6 hours a day, several individual stations having averages of 10 hours or more. On the other hand, for the South of Ireland the District Value was only 3·2 hours a day. Solar halos were observed at Oxford on the 11th and 15th, at Tenbury on the 11th and lunar halos at Oxford on the 13th and Tenbury on the 11th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.*		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	26	4·2	11	4·6	—	—	12	2·7	24	5·0	25	4·8	24	5·3	25	5·8
North	2	1·8	7	1·6	—	—	6	0·9	2	2·1	0	—	0	—	1	1·3
West	0	—	7	2·3	—	—	13	2·0	14	1·5	14	3·9	2	3·0	7	2·5
East	26	4·4	11	2·5	—	—	9	4·2	11	3·7	12	4·9	16	2·9	20	3·0
Calm	0	—	6	—	—	—	6	—	1	—	0	—	4	—	1	—

* For Scotland N. (Deerness) the week ends at midnight on Friday.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Unusual	Very unusual	Very unusual	Unusual
	Rainfall ...	Light	Light	Light	Light	Light	Light	Light	Light	Moderate	Heavy	Heavy	Moderate
	Sunshine ...	Abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Moderate	Moderate	Moderate	Scanty	Very scanty	Moderate

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SPRING. 11 weeks from March 2nd, 1919.	Warmth ...	2, 4, 5	2, 4, 5	3, 4, 4	3, 3, 5	2, 4, 5	3, 3, 5	2, 4, 5	3, 3, 5	2, 4, 5	1, 4, 6	1, 4, 6	2, 4, 5
	Rainfall ...	5, 2, 4	4, 5, 2	5, 1, 5	3, 5, 3	5, 4, 2	4, 5, 2	3, 5, 3	5, 5, 1	5, 3, 3	3, 8, 0	1, 8, 2	4, 6, 1
	Sunshine ...	4, 6, 1	3, 4, 4	1, 4, 6	2, 2, 7	2, 2, 7	2, 3, 6	2, 4, 5	2, 5, 4	3, 5, 3	1, 5, 5	1, 5, 5	2, 4, 5

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour

(23363—19.) Wt 162—833/512. 625. 5/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																						
a. Islands — a Lerwick	54	62	13th	43	11th	56·4	45·4	50·6	+ 6·4	1	0·04	1	− 11									
a Houton Bay, Orkney	520	61	13th	40	11th	54·9	43·1	48·7	—	2	0·03	1	− 11									
a Stornoway	51	68	15th	47	14, 17	61·7	48·1	54·5	+ 8·1	3	0·51	13	− 2	Houton Bay	8·1	+ 2·0	49	0	39	•	•	•	•
a Castlebay, Barra I.	37	63	14, 15	47	13th	56·6	49·1	52·6	—	5	0·41	10	—	Stornoway	5·8	− 0·8	35	•	•	•	•	•	•
														Castlebay	5·2	− 0·4	32	•	•	•	•	•	•
b. Mainland — a Wick	81	59	13th	43	11, 14	52·7	44·1	48·1	+ 2·1	1	0·04	1	− 11									
a Strathpeffer	125	74	16th	40	11th	67·9	45·3	55·9	+ 7·9	1	0·13	3	− 8									
p Glencarron	500	72	15th	44	12th	66·4	47·9	56·6	+ 9·8	3	0·33	8	− 18									
a Fort Augustus	68	—	—	—	—	—	—	—	—	0	0·00	0	− 14									
p Fort William	171	77	15th	46	12th	68·1	50·6	58·8	+ 9·9	2	0·38	10	− 12									
1. SCOTLAND, E.																						
a Nairn	82	76	15th	41	12th	70·3	45·4	57·1	+ 9·0	1	0·04	1	− 10	Nairn	6·4	—	39	•	•	•	•	•	•
p Gordon Castle	101	73	16th	45	12th	68·9	49·3	58·5	+10·2	1	0·08	2	− 11	Gordon Castle	9·5	—	58	•	•	•	•	•	•
a Aberdeen	46	67	13th	42	16th	59·6	45·1	51·9	+ 4·3	1	0·10	3	− 11	Aberdeen	7·8	+ 1·6	48	0	33	•	•	44·5	-1·4
a Balmoral	930	70	14th	33	17th	65·1	40·9	52·3	+ 6·8	2	0·31	8	− 6	Balmoral	•	•	•	1	29	•	•	•	•
p Crieff	432	66	13th	44	11, 16	60·7	45·6	52·7	+ 3·4	3	0·71	18	+ 3	Crathes	8·3	+ 2·6	51	0	32	51·2	+1·6	44·9	-1·4
a Dundee	244	69	13th	40	12th	60·4	43·4	51·4	+ 2·7	2	0·35	9	− 4	Dundee	6·6	—	41	0	33	48·3	•	•	•
a Leith	30	74	14th	43	11th	61·4	45·6	53·0	+ 3·6	2	0·24	6	− 5	Leith	—	—	—	0	41	•	•	•	•
p Edinburgh	441	71	14th	43	15th	63·9	45·6	54·2	+ 6·3	2	0·17	4	− 7	Edinburgh	6·3	+ 0·6	39	0	35	•	•	•	•
a West Linton	769	71	15th	39	16th	66·9	43·7	54·6	+ 8·7	2	0·24	6	—	West Linton	5·7	—	36	0	35	•	•	•	•
p Marchmont	498	71	13th	42	16th	65·9	45·6	55·1	+ 7·5	3	0·74	19	+ 4	Marchmont	7·4	+ 1·6	46	•	•	•	•	•	•
6. a. SCOTLAND, W.																						
a Ford (Argyll)	149	74	15th	46	12th	64·8	50·7	57·3	—	4	0·30	8	—	Ford (Argyll)	•	•	•	0	36	52·9	—	45·5	—
p Glasgow Observatory	180	75	14th	47	11, 15, 16	65·3	48·7	56·5	+ 6·4	1	0·04	1	− 14	Glasgow	5·1	− 0·4	32	0	40	•	•	•	•
p Rothesay	200	69	14th	45	12th	60·3	47·7	53·6	+ 3·5	5	0·26	7	− 10	Rothesay	5·7	—	36	0	38	51·9	—	46·8	-1·3
a Kilmarnock	80	79	15th	46	12th	69·0	51·4	59·7	+10·2	1	0·04	1	− 13	Kilmarnock	6·2	—	39	•	•	53·5	—	46·0	—
a Colmonell	170	74	15th	43	17th	64·4	49·7	56·6	+ 7·0	2	0·04	1	− 14	Colmonell	•	•	•	0	38	•	•	•	•
p Cally, Gatehouse	120	74	14, 15	39	11th	63·9	47·6	55·3	+ 5·8	2	0·09	2	− 16	Dumfries	6·5	—	41	0	40	52·8	0·0	46·4	-3·2
p Dumfries	180	74	15th	47	12, 16	66·3	49·4	57·3	+ 6·8	1	0·06	2	− 13	Eskdalemuir	7·1	—	45	0	38	•	•	•	•
a Eskdalemuir	794	72	15th	41	11th	65·6	45·0	54·7	—	3	0·40	10	—									
b. I. OF MAN p Douglas	277	67	14th	46	11, 16, 17	57·6	47·9	52·5	+ 2·6	4	0·85	22	+ 8	Douglas	5·3	− 2·3	33	0	41	•	•	•	•
2. ENGLAND, N.E.																						
a North — a Alnwick Castle	210	72	13th	39	17th	61·0	42·6	51·3	+ 3·0	2	0·26	7	− 6									
a Tynemouth	71	69	13th	43	11th	58·4	46·6	52·2	+ 4·1	2	0·12	3	− 8	Cockle Park	7·4	+ 1·5	46	0	35	50·8	+0·6	46·2	-1·1
p Durham	336	74	13th	39	16th	66·9	44·6	55·1	+ 6·5	2	0·14	4	− 7	Durham	8·0	+ 2·6	50	1	29	•	•	•	•
p Rounton	249	75	13th	42	16th	69·7	47·0	57·7	+ 9·4	2	0·17	4	− 8	Rounton	•	•	•	0	31	52·5	•	•	•
a West Witton	605	75	13th	43	16th	69·3	47·4	57·7	—	1	0·05	1	—	West Witton	•	•	•	0	38	52·6	—	43·6	—
p Scarborough	100	68	13, 14	45	14, 16	62·4	47·6	54·6	+ 5·4	2	0·34	9	− 2	Scarborough†	10·1	+ 3·9	64	•	•	•	•	43·4	—
p York	56	74	13th	45	16th	70·3	49·1	59·1	+ 8·1	2	0·27	7	− 4	York	8·1	+ 2·6	51	—	—	53·0	+1·5	47·1	-1·2
b. South — a Spurn Head	26	64	13th	47	14th	58·4	48·4	53·1	+ 3·4	2	0·14	4	− 5	Spurn Head	5·4	—	34	•	•	•	•	•	•
a Lincoln	58	77	15th	47	16th	72·6	49·9	60·6	+ 8·9	3	0·08	2	− 9	Lincoln	•	•	•	0	42	55·5	+2·7	47·7	-0·9
a Fulbeck	180	76	15th	45	16th	72·0	48·3	59·4	+ 8·2	1	0·01	0·3	− 11	Fulbeck*	9·2	+ 2·6	58	•	•	57·7	+2·8	47·2	-1·6
														Skegness	9·9	+ 3·1	63	•	•	•	•	•	•
3. ENGLAND, E.																						
p Cromer	196	72	11th	46	17th	66·6	49·4	57·5	+ 7·0	2	0·22	6	− 3	Cromer	10·4	+ 3·8	67	•	•	•	•	•	•
a Little Massingham	280	74	15th	43	16th	70·0	46·9	57·8	+ 6·7	1	0·07	2	− 10	Lit. Massingham	10·0	+ 3·5	64	•	•	•	•	•	•
a Yarmouth	13	65	13th	49	11, 14, 17	58·1	50·0	53·8	+ 3·6	1	0·04	1	− 9	Yarmouth	10·8	—	69	0	43	58·1	+2·4	51·7	-0·5
a Norwich	93	74	13th	45	17th	70·6	49·9	59·6	+ 7·8	2	0·19	5	− 6	Norwich	10·0	—	64	0	41	57·3	•	•	•
a Geldeston	37	73	13th	40	17th	68·4	47·0	57·1	+ 6·1	1	0·02	1	− 9	Geldeston	9·7	+ 2·7	62	•	•	•	•	•	•
p Cambridge	41	76	15th	42	11, 14, 16	73·1	45·6	58·5	+ 6·3	0	0·00	0	− 10	Cambridge	9·3	+ 2·8	60	0	38	56·3	+1·6	49·3	-1·8
a Clacton-on-Sea	54	65	12, 17	48	17th	61·6	50·7	55·8	+ 4·7	1	0·06	1	− 7	Clacton	8·6	+ 1·1	56	0	40	56·1	+2·4	50·5	-1·0
a Rothamsted	424	73	14, 15	44	13th	68·9	48·7	58·2	+ 7·0	0	0·00	0	− 11	Rothamsted	9·1	+ 2·7	59	0	35	53·9	•	•	•
p Tottenham	51	75	14, 15	48	11, 13	71·1	51·6	60·8	—	1	0·06	2	—	Tottenham	9·0	—	58	0	43	•	•	49·8	-1·7
4. MIDLAND COUNTIES.																						
a North — a Harrogate	479	74	13th	42	16th	68·6	45·3	56·3	+ 7·2	2	0·23	7	− 6	Harrogate	8·8	+ 2·9	55	0	36	51·8	+2·3	47·5	-0·3
p Sheffield	429	75	15th	47	15th	70·4	49·1	59·1	—	1	0·12	3	—	Sheffield	7·8	+ 2·2	50	0	41	53·0	+2·2	45·2	-1·6
p Buxton	987	73	15th	44	13th	65·6	47·0	55·7	—	2	0·03	1	− 18	Buxton	7·1	—	45	0	40	53·0	+2·6	44·2	-2·1
b. East — a Bawtry	65	79	15th	43	16th	73·0	46·3	58·9	+ 7·6	1	0·06	2	− 9	Worksop	9·0	+ 3·5	57	0	36	55·0	—	48·8	—
a Nottingham	82	76	15th	44	13th	70·9	48·3	58·9	+ 7·4	1	0·04	1	− 11	Nottingham	8·4	+ 2·4	54	0	41	56·8	+3·8	47·5	-1·1
p Birmingham, Edgbsn.	535	74	14, 15	47	11, 17	69·1	50·0	59·0	+ 7·5	1	0·04	1	− 12	Birmingham	7·3	+ 2·3	47	0	38	51·5	+2·3	45·2	-1·6
a Raunds	203	76	15th	42	11th	72·7	46·6	58·9	+ 6·9	1	0·01	0·2	− 14	Raunds	9·1	—	59	0	35	52·6	—	46·9	—
p Oxford	208	76	14th	46	11th	69·9	49·7	59·2	+ 6·7	1	0·03	1	− 11	Oxford	8·1	+ 1·7	53	0	36	•	•	•	•
c. West — a Cheadle (N. Staffs.)	646	75	15th	46	12, 17	67·7	48·1	57·3	+ 7·2	2	0·13	3	− 11	Malvern	7·5	—	49	0	40	55·1	—	48·6	—
p Tenbury	313	75	14th	42	11, 17	69·1	45·3	56·5	+ 5·1	2	0·17	4	− 6	Cheadle	•	•	•	0	36	•	•	•	•
p Ross-on-Wye	201	76	14th	43	13th	69·7	48·0	58·2	+ 6·2	2	0·06	1	− 12	Tenbury	•	•	•	0	36	54·7	—	—	—
a Clifton	228	78	14th	46	11th	67·1	51·0	58·6	+ 4·8	1	0·09	2	− 14	Ross-on-Wye	7·0	—	45	0	38	—	—	—	—
														Clifton	6·9	—	45	0	43	•	•	•	•
5. ENGLAND, S.E.																						
a Marlborough	424	77	14th	38	17th	68·3	46·4	56·7	+ 5·9	3	0·16	4	− 8	Worthing	8·6	+ 0·9	56	0	42	57·5	+1·6	51·2	-0·8
p Salisbury (Wilton)	180	77	14th	40	17th	68·0	46·7	56·7	+ 4·2	1	0·17	4	− 9	Marlborough	8·0	+ 1·9	52	0	34	55·5	—	49·4	—
a Wisley, Surrey	150	78	15th	44	11, 13	72·1	48·6	59·7	+ 7·5	1	0·03	1	− 8	Salisbury	•	•	•	0	37	56·8	•	•	•
a Tunbridge Wells	354	75	14th	43	11th	70·1	49·6	59·2	+ 7·3	1	0·02	1	− 11	Wisley	8·6	+ 1·8	56	0	32	55·1	+0·7	48·3	-2·4
a Margate	51	71	11th	50	11, 16	65·4	52·0	58·3	+ 6·0	0	0·00	0	− 10	Tunbridge Wells	9·5	+ 2·5	62	0	33	55·4	+0·2	49·2	—
														Margate	9·8	+ 3·0	64	0	41	57·1	+3·6	51·0	+0·6
a Dungeness	21	63	13, 14	45	16th	60·0	48·1	53·7	+ 2·0	2	0·06	1	− 7	Folkestone	9·0	—	59	•	•	•	•	46·9	—
p St. Leonards	178	73	14th	46	13th	65·4	51·3	57·9	+ 5·6	2	0·08	2	− 8	St. Leonards	10·5	+ 2·8	69	0	41	57·7	—	49·5	—
p Southampton	64	75	14th	44	11th	68·1	49·7	58·4	+ 4·4	1	0·08	2	− 12	Southampton	7·4	+ 0·3	48	0	34	•	•	•	•
a Ventnor	59	67	14th	43	11th	61·6	48·6	54·7	+ 1·5	3	0·14	4	− 6	Ventnor	7·9	+ 0·5	52	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	77	15th	46	11, 13	71·6	50·5	60·4	+ 7·4	0	0·00	0·1	− 11	Richmond	8·4	+ 1·8	55	0	34	55·9	+1·7	48·4	-1·8
a Westminster	27	75	14, 15	47	11, 13	71·4	51·7	61·0	+ 7·3	0	0·00	0	− 10	Westminster	9·0	+ 3·3	58	0	42	•	•	•	•
ag Greenwich	149	75	13th	44	11th	72·6	49·1	60·2	+ 7·3	0	0·00	0	− 10	Greenwich	9·9	+ 3·9	64	0	32	•	•	•	•
a Hampstead	450	73	15th	49	11, 17	68·7	51·0	59·3	—	0	0·00	0	—	Hampstead	8·7	—	56	0	37	•	•	•	•
ag Camden Square	110	80	15th	47	13th	74·6	50·7	61·9	+ 7·3	0	0·00	0	− 11	Camden Square	7·4	+ 1·6	48	0	43	•	•	•	•
7. a. ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	74	15th	46	12th	65·3	49·3	56·8	+ 7·1	1	0·10	3	− 11	Aspatria	6·7	+ 0·3	42	0	45	52·3	+0·3	46·4	-1·6
p Newton Rigg	559	75	15th	45	16th	67·4	49·4	57·9	+ 8·7	2	0·22	6	− 7	Newton Rigg	7·6	+ 1·0	48	0	40	53·0	+1·6	46·4	-0·9
p Stonyhurst	375	74	15th	45	12th	68·1	49·9	58·5	+ 8·2	1	0·05	1	− 15	Stonyhurst	6·2	− 0·1	39	0	38	•	•	•	•
p Blackpool	36	75	14, 15	45	12, 17	68·6	49·6	58·5	+ 8·0	1	0·04	1	− 11	Blackpool	7·8	+ 0·3	50	0	33	53·5	—	46·8	—
a Southport	37	78	15th	46	12th	69·1	50·1	59·0	+ 8·0	1	0·07	2	− 10	Southport	7·6	+ 0·3	48	0	36	57·7	+2·9	51·7	+0·3
a Liverpool (Bidston)	188	75	13, 15	48	12, 13, 17	68·1	50·4	58·7	+ 7·1	1	0·08	2	− 9	Hoylake	—	—	—	•	•	•	•	•	•
a Hawarden Bridge	22	75	14, 15	46	17th	69·6	50·9	59·7	+ 7·6	1	0·11	3	− 7	Liverpool	7·4	—	47	0	40	•	•	•	•
p Manchester (Whit. Pk.)	126	78	15th	48	12, 17	70·1	51·3	60·1	+ 7·7	1	0·10	3	− 9	Manchester (City)	6·5	+ 1·1	41	0	46	55·4	+3·5	48·7	-0·4
														Whitworth Park	6·7	+ 1·4	43	•	•	•	•	•	•
b. NORTH WALES.																						
p Llandudno	16	75	14th	46	17th	66·7	51·1	58·4	+ 6·8	1	0·38	10	− 1	Llandudno	6·9	− 0·4	44	•	•	•	•	•	•
a Holyhead	15	76	14th	45	11th	62·6	49·6	55·7	+ 5·0	2	0·06	2	− 9	Holyhead	5·1	—	32	0	41	•	•	•	•
a Beddgelert	309	74	14th	43	17th	64·3	50·7	57·1	—	4	0·63	16	—	Aberdovey	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.				Rainfall.			STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.	
																	Ground Frosts.	Lowest Reading.	Mean.	Deviation from average.	Mean.	Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.	°F.
8. *a*, SOUTH WALES.																						
a Aberystwyth	59	77	14th	48	11th	64·7	52·4	58·2	—	3	0·25	6	—	Aberystwyth ..	5·0	— 1·6	32	•	•	•	•	•	•
a Rhayader	757	72	14th	39	11, 17	63·3	46·0	54·1	—	2	0·13	3	—	Rhayader ..	5·5	—	36	2	28	•	•	•	•
a St. Ann's Head	149	69	14th	45	11th	56·7	48·0	52·1	+ 1·4	4	0·48	12	+ 1	St. Ann's Head	5·2	— 2·1	34	•	•	•	•	•	•
p Cardiff	202	75	14th	44	11th	65·8	48·6	56·6	+ 4·5	2	0·30	8	— 6	Cardiff	5·9	—	38	0	37	55·4	+1·0	48·6	-1·6
b, ENGLAND, S.W.																						
a Bath	66	78	14th	43	11th	68·7	48·9	58·2	+ 5·5	2	0·11	3	— 7	Bath	•	•	•	—	—	55·7	+0·8	49·8	-1·6
a Shaftesbury	722	72	14th	44	17th	62·7	47·4	54·6	+ 3·4	2	0·12	3	— 9	Shaftesbury ..	•	•	•	•	•	53·4	—	48·7	—
a Arlington	613	70	14th	45	11th	62·3	49·8	55·7	+ 5·0	3	0·14	4	— 12										
a Newquay	190	67	14th	44	11th	61·9	49·3	55·2	+ 3·1	4	0·31	8	— 1	Newquay ..	6·9	— 0·5	45	0	42	56·1	—	50·6	—
a Cullompton	202	77	14th	43	11th	66·9	50·0	57·9	+ 5·3	2	0·37	10	— 2	Cullompton ..	6·8	+ 0·1	44	0	43	55·9	•	•	•
a Portland Bill	19	57	13, 14	43	11th	55·1	47·1	50·9	— 1·0	5	0·38	10	+ 1	Weymouth ..	7·5	—	49	•	•	•	•	•	•
p Plymouth	116	70	13th	46	11th	61·1	50·7	55·6	+ 2·4	3	0·95	24	+ 13	Plymouth ..	7·6	+ 0·3	50	0	43	56·2	+0·3	50·7	—
a Falmouth	167	62	13th	47	11th	59·6	49·9	54·5	+ 2·2	4	0·41	10	— 2	Falmouth ..	6·6	— 1·2	43	0	41	57·4	—	53·1	—
9. IRELAND, N.																						
a West .. *a* Malin Head	208	69	14, 15	47	17th	63·3	48·0	55·2	+ 5·9	2	0·28	7	— 4	Malin Head ..	4·8	—	30	•	•	•	•	•	•
a Blacksod Point ..	327	63	11, 12	45	16th	59·1	47·6	53·0	+ 2·4	7	1·42	36	+ 21	Markree Castle	3·0	— 3·2	19	0	40	53·9	0·0	48·3	-1·2
p Markree Castle ..	122	67	13th	47	11th	63·7	51·0	57·0	+ 7·2	6	1·86	47	+ 32										
b, East .. *p* Armagh	196	70	15th	45	11th	63·6	49·6	56·2	+ 6·0	5	0·51	13	0	Armagh	5·5	— 0·6	35	0	38	53·5	+0·4	48·3	-1·2
a Donaghadee	101	64	15th	44	11th	58·7	46·3	52·1	+ 2·3	3	0·15	4	— 8										
10. IRELAND, S.																						
p Dublin, City	47	70	14th	48	11th	65·1	51·1	57·7	+ 5·3	5	0·56	14	+ 3	Trinity Coll. ..	•	•	•	0	39	54·3	+1·1	49·5	-0·9
a Birr Castle	175	67	13th	45	11th	62·1	50·9	56·2	+ 5·3	5	1·70	43	+ 31	Phœnix Park ..	5·4	— 1·5	34	0	35	•	•	•	•
a Kilkenny	212	66	15th	47	11, 17	61·0	50·1	55·2	+ 3·8	5	1·18	30	+ 18	Dublin City ..	•	•	•	0	44	•	•	•	•
a Waterford	120	61	13th	47	11, 17	58·3	49·3	53·5	+ 1·4	6	1·51	38	+ 25	Birr Castle ..	3·7	— 2·5	24	0	42	•	•	•	•
p Seskin, Carrick-on-Suir	541	63	13th	46	11th	56·7	48·3	52·3	—	6	2·30	59	—	Seskin	2·5	—	16	0	44	•	•	•	•
a Cahir	199	66	15th	46	17th	58·6	49·6	53·8	+ 2·5	5	2·59	66	—										
a Foynes	50	65	12th	46	16, 17	60·9	50·1	55·2	+ 3·1	5	1·47	37	+ 24										
a Cahirciveen (Val. Obs.)	30	64	13th	48	16th	58·9	50·9	54·7	+ 2·6	6	1·26	32	+ 12	Cahirciveen ..	2·1	— 4·8	14	0	44	•	•	•	•
a Killarney	174	64	11th	47	16th	60·9	50·9	55·6	+ 3·6	7	1·89	48	+ 31	Ballinacurra ..	1·5	— 5·5	10	•	•	•	•	•	•
a Roche's Point	32	64	13th	48	11, 16	55·4	49·4	52·2	+ 0·4	6	1·19	30	+ 17										
11. ENGLISH CHANNEL.																						
a Scilly, St. Mary's ..	131	60	13th	48	11th	57·4	49·9	53·4	+ 0·9	4	0·91	23	+ 14	Scilly	6·0	— 1·3	39	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	76	14th	47	17th	64·9	51·6	57·9	+ 3·8	2	0·28	7	— 3	St. Heliers ..	7·7	0·0	50	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	76	14th	49	16th	64·6	51·9	57·9	+ 3·8	1	0·53	13	+ 4	Guernsey† ..	8·4	+ 0·4	56	0	44	57·6	+1·5	51·9	-0·8

†The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, May 17th, 1919.

DISTRICT AND STATION.	Height.			Distribution of Wind.†								Extreme Velocities.							
	Above Mean Sea Level	Above Ground.	Above Building.	More than 17 m/s or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.			
				Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Veer from N.	Speed.	Mid Time.		Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	11	3	93	71	1	0	113	12	11	20	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	2	115	51	0	113	6	17	21	13	17	21	15
Aberdeen	153	105	52	—	—	—	—	17	101	50	0	135	8	17	21	13	17	20	45
Edinburgh	485	39	31	—	—	13	1	39	84	44	0	180	11	13	3	17	11	16	20
6. SCOTLAND, W.																			
Eskdalemuir	825	60	22	—	—	12, 13	3	70	48	47	0	210	11	13	11	17	11	15	15
Paisley	188	81	15	—	—	—	—	31	97	40	0	180	8	12	22	16	15	12	35
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	1	75	87	5	135	6	14	14	11	11	15	40
South Shields	72	61	12	—	—	17	1	36	89	42	0	157	12	17	22	15	17	22	5
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	14	1	49	88	30	0	—	11	14	21	—	—	—	—
Gorleston	52	42	‡	—	—	—	—	49	86	39	4	—	10	12	13	11	12	13	5
Shoeburyness	103	90	‡	—	—	14	3	59	66	8	32	79	12	14	17	15	14	15	20
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	55	74	39	0	113	9	14	13	14	14	12	55
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	33	101	34	0	—	9	14	13	17	14	12	55
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	11, 14	12	78	57	13	8	115	13	14	13	16	14	14	20
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	8	75	85	0	79	7	14	15	11	14	15	15
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	—	69	99	0	67	5	14	18	11	11	14	0
Fleetwood (Cup Anr.) ..	109	44	—	—	—	—	—	41	109	18	0	113	10	14	15	—	—	—	—
Southport	80	62	48	—	—	11, 14	6	67	94	1	0	113	12	14	15	18	14	15	30
Holyhead	60	40	‡	—	—	—	—	112	42	14	0	124	10	14	14	15	12	16	40
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	11 to 14, 16, 17	49	83	34	2	0	67	16	13	20	20	13	20	45
Plymouth	185	88	2	—	—	11, 13	4	68	87	9	0	—	12	11	14	18	14	13	35
Lyme Regis	556	61	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	11	1	101	49	17	0	157	12	11	11	—	—	—	—
Quilty	100	40	‡	—	—	11, 12, 14, 16, 17	35	90	33	10	0	—	14	17	13	19	17	7	20
Cahirciveen (Val. Obs.)	98	41	‡	—	—	11, 12, 16, 17	35	87	38	8	0	180	14	12	14	24	17	1	40
Weaver Pt.	160	30	‡	—	—	11, 12, 16, 17	29	95	36	8	0	—	14	11	8	19	11	8	10
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	76	84	8	0	113	10	13	20	15	13	19	55

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.] * Above tops of trees.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

TWENTIETH WEEK of 1919—May 11th to May 17th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			Mean Pressure at M.S.L.
	At any "D.-V." Station.		Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	Highest	Lowest	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.								
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	77	40	89·8	81·3	85·3	+ 3·9	85	+ 40	0	− 5	2	− 2	0·20	5	− 11	6·9	+1·2	42	1016
Eastern.																			
1. SCOTLAND, EAST ...	76	33	91·3	80·3	85·4	+ 3·5	87	+ 36	0	− 6	2	− 2	0·31	8	− 5	7·1	+1·2	44	1016
2. ENGLAND, N.E.	77	39	91·7	81·4	86·3	+ 3·7	97	+ 43	0	− 2	2	− 1	0·17	4	− 7	8·8	+2·6	55	1018
3. ENGLAND, EAST ...	76	40	92·8	82·4	87·3	+ 3·6	110	+ 42	0	− 2	1	− 2	0·07	2	− 9	9·6	+3·0	62	1018
4. MIDLAND COUNTIES ...	79	42	94·0	81·8	87·6	+ 3·9	113	+ 44	0	− 3	1	− 2	0·09	2	− 11	7·9	+1·9	51	1017
5. ENGLAND, S.E.	78	38	92·4	82·6	87·2	+ 3·0	109	+ 33	0	− 1	1	− 2	0·07	2	− 9	8·8	+1·7	57	1018
Western.																			
6. SCOTLAND, WEST ...	75	39	90·8	82·3	86·3	+ 3·4	97	+ 37	0	− 3	3	− 1	0·23	6	− 11	5·2	−1·3	33	1016
7. ENGLAND, N.W.	78	45	92·7	83·1	87·6	+ 4·2	114	+ 51	0	− 1	1	− 2	0·13	4	− 9	7·0	+0·4	45	1015
8. ENGLAND, S.W.	78	39	89·8	82·2	85·8	+ 1·7	91	+ 20	0	− 1	3	0	0·34	9	− 3	6·2	−0·6	41	1016
9. IRELAND, NORTH ...	70	44	89·6	82·4	85·8	+ 2·7	91	+ 33	0	− 1	5	+ 1	0·99	25	+ 12	4·3	−1·9	27	1011
10. IRELAND, SOUTH ...	70	45	88·6	83·2	85·7	+ 1·7	90	+ 21	0	− 1	6	+ 3	1·48	38	+ 24	3·2	−3·6	21	1011
11. ENGLISH CHANNEL ...	76	47	89·8	83·6	86·6	+ 1·8	101	+ 22	0	0	2	− 1	0·57	14	+ 4	7·4	−0·4	49	1017

THE SEASON (Spring).—Aggregates, &c., for the Period of 11 Weeks, March 2nd to May 17th, 1919.

0. SCOTLAND, NORTH ...	77	18	81·4	75·0	78·1	− 0·7	223	− 49	272	+ 58	53	+ 3	9·46	241	+ 14	4·4	+0·2	32	1010
Eastern.																			
1. SCOTLAND, EAST ...	76	11	81·9	74·3	78·0	− 1·0	256	− 70	319	+ 81	42	− 3	5·61	144	+ 3	4·0	−0·6	30	1011
2. ENGLAND, N.E.	77	19	83·1	75·8	79·3	− 0·5	326	− 25	213	+ 47	40	0	4·91	124	+ 14	4·1	−0·9	30	1012
3. ENGLAND, EAST ...	76	21	83·9	76·1	79·8	− 0·5	391	− 47	191	+ 25	40	+ 3	4·85	125	+ 19	4·3	−1·0	32	1012
4. MIDLAND COUNTIES ...	79	22	83·9	75·9	79·7	− 0·6	389	− 66	217	+ 32	40	+ 4	6·94	176	+ 59	3·2	−0·8	29	1013
5. ENGLAND, S.E.	78	24	84·3	76·8	80·4	− 0·6	425	− 45	149	+ 30	40	+ 4	6·73	170	+ 56	4·4	−0·9	33	1013
Western.																			
6. SCOTLAND, WEST ...	75	20	82·8	75·8	79·2	− 0·7	313	− 49	224	+ 68	47	+ 2	7·72	196	− 5	4·3	−0·5	32	1012
7. ENGLAND, N.W.	78	19	82·9	76·5	79·5	− 0·7	333	− 46	187	+ 55	42	+ 2	7·49	193	+ 47	4·2	−0·7	31	1012
8. ENGLAND, S.W.	78	21	83·6	76·8	80·0	− 0·9	370	− 67	155	+ 55	45	+ 6	8·30	212	+ 49	4·8	−0·5	36	1014
9. IRELAND, NORTH ...	70	22	83·2	76·1	79·5	− 0·9	329	− 56	193	+ 69	54	+ 5	7·02	176	+ 10	4·1	−0·5	31	1012
10. IRELAND, SOUTH ...	70	24	83·9	77·0	80·3	− 0·8	384	− 82	155	+ 63	53	+10	6·70	171	− 5	4·2	−0·9	32	1014
11. ENGLISH CHANNEL ...	76	31	84·4	79·0	81·6	− 0·5	466	− 58	53	+ 26	47	+ 6	7·76	196	+ 64	5·5	−0·7	42	1015

THE YEAR 1919.—Aggregates, &c., for the Period of 20 Weeks, December 29th, 1918, to May 17th, 1919.

0. SCOTLAND, NORTH ...	77	11	79·7	73·9	76·7	− 1·0	227	−104	680	+ 146	89	− 7	15·45	394	−108	3·2	+0·2	28	1008
Eastern.																			
1. SCOTLAND, EAST ...	76	5	79·7	73·2	76·4	− 1·2	256	−133	787	+ 175	79	− 2	11·28	289	+ 21	2·9	−0·5	26	1009
2. ENGLAND, N.E.	77	11	80·7	74·6	77·6	− 0·7	336	− 97	578	+ 107	82	+ 8	10·77	274	+ 75	2·9	−0·8	26	1010
3. ENGLAND, EAST ...	76	10	81·3	74·7	78·0	− 0·6	426	−103	580	+ 87	80	+ 8	10·53	270	+ 75	3·0	−0·9	27	1011
4. MIDLAND COUNTIES ...	79	9	81·2	74·5	77·7	− 0·9	412	−144	628	+ 107	77	+ 6	13·17	334	+111	2·8	−0·7	25	1010
5. ENGLAND, S.E.	78	16	81·9	75·6	78·7	− 0·6	508	− 79	451	+ 72	82	+12	13·83	350	+122	3·1	−0·9	27	1011
Western.																			
6. SCOTLAND, WEST ...	75	14	80·8	74·8	77·8	− 0·8	330	−118	539	+ 124	83	− 4	14·61	371	− 55	3·1	−0·3	27	1010
7. ENGLAND, N.W.	78	16	80·9	75·3	78·0	− 0·9	354	−117	494	+ 112	81	+ 4	12·55	320	+ 26	3·1	−0·4	27	1010
8. ENGLAND, S.W.	78	15	81·7	75·8	78·7	− 0·9	452	−129	409	+ 108	88	+11	18·15	463	+123	3·6	−0·3	32	1011
9. IRELAND, NORTH ...	70	22	81·6	75·4	78·4	− 0·8	386	−123	437	+ 98	95	+ 2	12·69	319	− 19	3·3	−0·1	32	1009
10. IRELAND, SOUTH ...	70	22	82·4	76·1	79·2	− 0·8	494	−154	362	+ 102	94	+10	14·15	361	− 7	3·4	−0·4	30	1010
11. ENGLISH CHANNEL ...	76	26	83·0	78·2	80·6	− 0·5	634	−107	137	+ 32	95	+12	18·44	492	+210	4·0	−0·6	35	1011
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: May 23rd, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) No. 21.

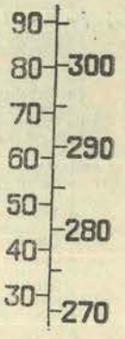
THE TWENTY-FIRST WEEK OF 1919.

SUNDAY, MAY 18TH, TO SATURDAY, MAY 24TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

During the greater part of the week anticyclonic conditions prevailed over the country generally, but towards its close the weather in Scotland and Ireland was affected by a depression of considerable intensity which formed over Iceland, and showers with light to moderate winds, mainly from South-West, were experienced. Temperature continued well above the normal at nearly all stations and the average daily range was in many cases as great as 15 a. The highest maxima occurred generally on the 23rd or 24th and were in several places as high as 301 a., a temperature which is most exceptional for May. The screen minima included one or two very low readings, the lowest being 271 a. at Balmoral and 272 a. at Durham, Bawtry and Newton Rigg. Frost on the grass occurred at many stations and several readings of 269 a. were reported. Rainfall was below the normal with the exception of Ireland South, where the excess was 6mm. Thunderstorms occurred in the northern and eastern parts of the Kingdom, generally on the 24th, but the measurement of rain was small except at a few places; on this day, Saturday, there was a thunderstorm at Crathes, Kincardine, with hailstones half-an-inch in diameter and 8mm. of precipitation in twenty minutes. In the London District there was no rain during the week. The dry period (15 days) has not been exceeded at this time of year since 1901, when there were nineteen consecutive days without rain. Cambridge and Southend report an absence of rain for twenty-one days and several stations in the southern parts of England thirteen days. Bright sunshine was abundant in most parts of the country, but below the normal in England South-West, Ireland South and the Channel Islands; several stations in England South-East had as much as 14 hours in a day. Aurora was observed at Tenbury on the 19th and solar halos were frequently seen. They were observed at Oxford on no less than six days out of the seven.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.*		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	27	6·4	25	4·1	—	—	12	2·3	23	3·6	25	3·1	22	4·5	26	6·2
North	1	1·5	1	1·1	—	—	10	1·8	2	1·6	3	1·5	1	1·3	0	—
West	0	—	6	3·6	—	—	6	1·6	14	2·0	14	1·9	0	—	5	1·2
East	28	5·2	19	3·2	—	—	18	4·8	9	3·4	14	3·4	24	1·8	22	3·1
Calm	0	—	2	—	—	—	2	—	3	—	0	—	4	—	1	—

* For Scotland N. (Deerness) the week ends at midnight on Friday.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Moderate
	Rainfall ...	Light	Very light	Light	Very light	Very light	Nought	Light	Moderate	Light	Moderate	Heavy	Moderate
	Sunshine ...	Abundant	Abundant	Abundant	Very abundant	Very abundant	Very abundant	Moderate	Moderate	Scanty	Moderate	Scanty	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SPRING. 12 weeks from March 2nd, 1919.	Warmth ...	3, 4, 5	3, 4, 5	4, 4, 4	4, 3, 5	3, 4, 5	4, 3, 5	3, 4, 5	4, 3, 5	3, 4, 5	2, 4, 6	2, 4, 6	2, 5, 5
	Rainfall ...	5, 2, 5	4, 5, 3	5, 1, 6	3, 5, 4	5, 4, 3	4, 5, 3	3, 5, 4	5, 6, 1	5, 3, 4	3, 9, 0	2, 8, 2	4, 7, 1
	Sunshine ...	5, 6, 1	4, 4, 4	2, 4, 6	3, 2, 7	3, 2, 7	3, 3, 6	2, 5, 5	2, 6, 4	3, 5, 4	1, 6, 5	1, 5, 6	2, 4, 6

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (m.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour

(23497—19.) Wt 162—833/512. 625. 5/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

Districts and Names of Stations reporting Temperature of Air and Rainfall.		Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of R in-Days.	Rainfall in the Week.		Deviation from Normal.
		Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.
0. SCOTLAND N.														
a, Islands	a Lerwick	54	59	24th	44	19, 20	54·4	45·9	49·9	+ 4·2	0	0·00	0	− 10
	a Houton Bay, Orkney	520	59	23rd	41	19-21	53·1	42·0	47·2	—	1	0·01	0·3	− 9
	a Stornoway	31	63	20th	44	19, 20	59·6	47·6	53·2	+ 5·1	3	0·39	10	− 2
	a Castlebay, Barra I.	37	57	19th	48	18, 19, 22	54·1	49·0	51·4	—	3	0·28	7	—
b, Mainland.	a Wick	81	59	23rd	43	20th	53·0	45·1	48·8	+ 1·2	1	0·12	3	− 7
	a Strathpeffer	125	72	23rd	35	20th	66·6	45·6	55·5	+ 5·7	1	0·05	1	− 8
	p Glencarron	500	—	—	—	—	—	—	—	—	—	—	—	—
	a Fort Augustus	[illegible]	—	—	—	—	—	—	—	—	0	0·00	0	− 11
	p Fort William	171	69	20th	41	20th	63·7	47·7	55·2	+ 4·5	4	0·23	6	− 12
1. SCOTLAND, E.														
	a Nairn	82	76	23rd	33	20th	68·7	45·6	56·5	+ 6·7	0	0·00	0	− 10
	p Gordon Castle	101	76	23rd	40	20th	65·3	46·1	55·1	+ 5·0	1	0·03	1	− 10
	a Aberdeen	46	68	24th	44	19, 20	57·7	46·0	51·5	+ 2·2	1	0·17	4	− 8
	a Balmoral	930	38	23rd	28	20th	64·3	37·9	50·3	+ 2·8	1	0·01	0	− 12
	p Crieff	432	68	22, 23	38	20th	61·9	43·1	51·9	+ 0·8	0	0·00	0	− 14
	a Dundee	244	70	23rd	37	20th	59·1	41·9	50·0	− 0·6	0	0·00	0	− 11
	a Leith	30	73	23rd	41	20th	66·7	46·9	56·2	+ 5·0	0	0·00	0·1	− 10
	p Edinburgh	441	71	22, 23	38	20th	64·7	44·0	53·7	+ 4·1	0	0·00	0	− 10
	a West Linton	769	70	22nd	35	20th	62·4	42·6	51·9	+ 4·2	0	0·00	0	—
	p Marchmont	496	74	23rd	33	20th	64·7	41·3	52·3	+ 2·9	0	0·00	0	− 13
6. a, SCOTLAND, W.														
	a Ford (Argyll)	149	65	20-23	43	23rd	63·1	47·7	54·9	—	3	0·24	6	—
	p Glasgow Observatory	180	70	22nd	41	20th	65·9	48·7	56·8	+ 5·3	2	0·14	4	− 9
	p Rothesay	200	64	22, 23	42	20th	61·4	46·3	53·4	+ 1·9	4	0·25	6	− 9
	a Kilmarnock	90	71	23rd	43	20th	67·7	48·0	57·3	+ 6·4	1	0·03	1	− 11
	a Colmonell	170	66	22, 24	43	20th	64·1	47·9	55·5	+ 4·6	4	0·22	6	− 7
	p Cally, Gatehouse	120	69	22nd	42	20th	63·3	45·6	53·9	+ 3·0	1	0·10	3	− 13
	p Dumfries	160	71	22nd	40	20th	64·7	45·6	54·6	+ 2·6	2	0·06	1	− 12
	a Eskdalemuir	794	70	22, 23	33	20th	63·7	40·0	51·1	—	2	0·08	2	—
b, I. OF MAN	p Douglas	277	66	22nd	46	19, 20	58·1	47·3	52·4	+ 1·1	4	0·65	17	+ 5
2. ENGLAND, N.E.														
a North	a Alnwick Castle	210	70	24th	35	20, 21	60·1	41·4	50·2	+ 0·6	2	0·04	1	− 13
	a Tynemouth	71	68	24th	41	20th	56·6	45·1	50·5	+ 1·0	1	0·01	0·2	− 12
	p Durham	336	73	23rd	30	20th	64·4	39·7	51·3	+ 1·3	2	0·04	1	− 11
	p Rounton	249	75	23rd	36	20th	66·6	43·0	54·1	+ 4·4	2	0·07	2	− 11
	a West Witton	605	76	23rd	39	20th	65·9	43·6	54·1	—	1	0·01	0	—
	p Scarborough	100	66	24th	43	20th	57·9	46·9	52·1	+ 1·5	0	0·00	0	− 12
	p York	56	78	23rd	38	20th	68·4	44·9	56·0	+ 3·6	3	0·08	2	− 10
b, South	a Spurn Head	26	64	24th	46	18, 20	56·9	48·7	52·6	+ 1·6	0	0·00	0	− 9
	a Lincoln	58	80	23rd	42	20th	70·1	47·0	57·9	+ 4·8	1	0·39	10	− 2
	a Fulbeck	180	79	23rd	40	20th	68·9	46·0	56·8	+ 4·2	1	0·19	5	− 7
3. ENGLAND, E.														
	p Cromer	196	75	23rd	43	20th	65·1	46·9	55·5	+ 3·5	1	0·09	2	− 7
	a Little Massingham	280	80	23rd	36	20th	68·3	42·6	54·7	+ 2·0	1	0·07	2	− 10
	a Yarmouth	13	62	24th	46	18, 19	55·9	48·7	52·1	+ 0·2	0	0·00	0	− 10
	a Norwich	93	81	23rd	38	20th	68·9	44·6	56·0	+ 2·7	1	0·14	4	− 7
	a Geldeston	37	79	23rd	34	19, 20	68·9	41·1	54·2	+ 1·6	1	0·02	0·4	− 10
	p Cambridge	41	81	23rd	36	20th	69·3	42·0	54·8	+ 1·0	0	0·00	0	− 11
	a Clacton-on-Sea	54	70	23rd	46	18th	60·7	50·4	55·2	+ 2·5	0	0·00	0	− 8
	a Rothamsted	424	77	23rd	39	20th	66·9	44·3	54·9	+ 2·1	0	0·00	0	− 12
	p Tottenham	61	79	23rd	44	19th	68·9	48·4	58·0	—	0	0·00	0	—
4. MIDLAND COUNTIES.														
a North	a Harrogate	479	73	23rd	36	20th	65·4	42·4	53·2	+ 2·8	2	0·04	1	− 13
	p Sheffield	429	76	23rd	38	20th	66·9	46·0	55·8	—	1	0·09	2	—
	p Buxton	987	73	23rd	35	20th	64·6	41·7	52·5	—	1	0·10	3	− 16
b, East	a Bawtry	65	79	23rd	32	20th	70·1	41·7	55·1	+ 2·4	1	0·06	2	− 9
	a Nottingham	82	81	23rd	40	20th	69·0	44·7	56·1	+ 3·3	1	0·12	3	− 9
	p Birmingham, Edgbsn.	535	77	23rd	41	20th	68·6	46·7	57·0	+ 4·2	1	0·07	2	− 11
	a Raunds	203	82	23rd	35	20th	70·6	41·6	55·2	+ 1·9	2	0·05	1	− 13
	p Oxford	208	77	23rd	40	20, 23	69·9	44·1	56·2	+ 2·4	0	0·00	0	− 12
c, West	a Cheadle (N. Staffs.)	646	76	23rd	37	20th	67·4	43·9	55·0	+ 3·6	1	0·15	4	− 10
	p Tenbury	313	75	23, 24	36	18th	69·4	42·3	55·0	+ 2·7	2	0·07	2	− 9
	p Ross-on-Wye	201	76	23, 24	38	18th	70·4	45·7	57·3	+ 3·7	0	0·00	0	− 13
	a Clifton	228	74	22nd	45	18th	67·7	48·9	57·7	+ 2·6	1	0·02	0·4	− 16
5. ENGLAND, S.E.														
	a Marlborough	424	75	23rd	35	18th	68·7	41·7	54·4	+ 2·1	2	0·03	1	− 12
	p Salisbury (Wilton)	180	75	23rd	38	18th	69·6	43·5	55·8	+ 1·8	0	0·00	0	− 13
	a Wisley, Surrey	150	78	23rd	40	20th	70·3	44·4	56·6	+ 2·9	0	0·00	0	− 10
	a Tunbridge Wells	354	74	23rd	41	20th	67·7	44·7	55·5	+ 2·1	0	0·00	0	− 12
	a Margate	51	78	23rd	44	18th	63·7	49·4	56·1	+ 2·3	0	0·00	0	− 10
	a Dungeness	21	63	21, 22	44	18th	60·9	48·3	54·2	+ 1·0	0	0·00	0	− 8
	p St. Leonards	178	70	22nd	45	18th	64·4	49·7	56·6	+ 2·8	0	0·00	0	− 10
	p Southampton	64	74	24th	42	18th	67·9	48·6	57·7	+ 2·2	0	0·00	0	− 12
	a Ventnor	59	70	24th	45	18th	63·3	49·9	56·2	+ 1·6	0	0·00	0	− 11
LONDON.	a Richmond (Kew Obs.)	18	78	23rd	44	20th	68·9	47·6	57·6	+ 3·1	0	0·00	0	− 11
	a Westminster	27	78	23rd	46	18th	69·9	49·5	59·1	+ 3·9	0	0·00	0	− 10
	ag Greenwich	149	81	23rd	39	20th	70·3	44·4	56·6	+ 2·3	0	0·00	0	− 10
	a Hampstead	450	77	23rd	43	19, 20	66·4	47·1	56·2	—	0	0·00	0	—
	ag Camden Square	110	82	23rd	42	20th	72·7	46·4	58·8	+ 2·6	0	0·00	0	− 11
7. a, ENGLAND, N.W.														
	p Aspatria (Mealsgate)	487	70	22nd	40	20th	64·1	47·0	55·0	+ 3·9	2	0·12	3	− 9
	p Newton Rigg	559	71	22nd	31	20th	65·6	43·0	53·6	+ 3·0	1	0·85	22	+ 10
	p Stonyhurst	375	70	22, 23	41	20th	64·4	46·9	55·1	+ 3·5	1	0·14	4	− 10
	p Blackpool	66	74	22nd	41	20th	64·1	45·0	54·0	+ 2·2	1	0·47	12	+ 1
	a Southport	37	74	22nd	42	19, 20	65·0	45·0	54·4	+ 2·1	1	0·52	13	+ 3
	a Liverpool (Bidston)	188	73	22nd	44	20th	66·1	47·9	56·5	+ 3·6	2	0·24	6	− 4
	a Hawarden Bridge	22	74	22nd	44	20th	66·9	47·7	56·7	+ 3·3	0	0·00	0	− 9
	p Manchester (Whit. Pk.)	125	76	22nd	44	19, 20	69·7	47·9	58·2	+ 4·5	1	0·17	4	− 7
b. NORTH WALES.														
	p Llandudno	16	68	21st	46	20, 22	63·7	47·7	55·2	+ 2·3	2	0·29	7	− 3
	a Holyhead	15	65	20th	45	23rd	59·6	47·4	53·1	+ 1·3	3	0·47	12	+ 2
	a Beddgelert	309	70	22nd	45	19th	64·4	48·1	55·8	—	3	0·41	10	—
	a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—

Stations reporting Sunshine and Temperature on the Grass and in the Ground.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts	Lowest Reading.	Earth 1 ft. Mean.	Deviation from Average.	Earth 4 ft. Mean.	Deviation from Average.
	hr.	hr.	°/o.		°F.	°F.	°F.	°F.	°F.
Houton Bay	8·2	+ 2·5	48	0	38	•	•	•	•
Stornoway	6·0	− 0·2	36	•	•	•	•	•	•
Castlebay	5·0	—	30	•	•	•	•	•	•
Nairn	6·6	—	40	•	•	•	•	•	•
Gordon Castle	7·5	—	45	•	•	•	•	•	•
Aberdeen	7·3	+ 1·2	44	0	37	•	•	46·5	−0·4
Balmoral	•	•	•	2	24	•	•	•	•
Crathes	7·6	+ 1·9	46	0	34	51·9	+0·6	47·3	−0·3
Dundee	7·5	—	45	1	30	51·1	•	•	•
Leith	—	—	—	1	23	•	•	•	•
Edinburgh	7·4	+ 1·6	45	1	30	•	•	•	•
West Linton	7·0	—	43	1	29	•	•	•	•
Marchmont	7·6	+ 1·8	46	•	•	•	•	•	•
Ford (Argyll)	•	•	•	0	33	54·1	—	47·7	—
Glasgow	6·7	+ 1·3	41	0	36	•	•	•	•
Rothesay	7·0	—	43	0	37	53·9	—	48·8	−0·5
Kilmarnock	7·2	—	44	•	•	55·4	—	48·1	—
Colmonell	•	•	•	0	39	•	•	•	•
Dumfries	7·0	—	43	0	33	54·1	−0·7	48·7	−2·6
Eskdalemuir	8·0	—	49	1	29	•	•	•	•
Douglas	5·1	− 2·4	32	0	43	•	•	•	•
Cockle Park	7·9	+ 1·9	49	1	29	50·4	−1·5	48·1	−0·5
Durham	8·7	+ 3·2	53	4	23	•	•	•	•
Rounton	•	•	•	2	25	53·1	•	•	•
West Witton	•	•	•	0	35	54·1	—	45·9	—
Scarborough†	10·8	+ 4·6	67	•	•	•	•	44·4	—
York	9·6	+ 3·9	60	—	—	53·9	+1·0	49·2	−0·3
Spurn Head	5·9	—	37	•	•	•	•	•	•
Lincoln	•	•	•	0	37	56·2	+1·8	50·2	+0·3
Fulbeck*	9·6	+ 3·0	60	•	•	57·9	+0·9	50·4	−0·4
Skegness	10·3	+ 3·4	64	•	•	•	•	•	•
Cromer	11·5	+ 4·8	72	•	•	•	•	•	•
Lit. Massingham	11·0	+ 4·4	69	•	•	•	•	•	•
Yarmouth	11·3	—	71	0	44	57·7	+0·1	54·0	+0·5
Norwich	10·9	—	69	0	33	56·7	•	•	•
Geldeston	10·8	+ 3·7	68	•	•	•	•	•	•
Cambridge	9·7	+ 3·0	61	0	32	55·7	−0·7	51·7	−0·8
Clacton	9·6	+ 2·0	60	0	42	56·5	+1·2	52·7	−0·1
Rothamsted	11·1	+ 4·6	70	2	26	55·3	•	•	•
Tottenham	10·5	—	66	0	39	•	•	52·8	−0·2
Harrogate	8·7	+ 3·0	54	1	29	52·4	+1·5	49·7	+0·6
Sheffield	7·4	+ 2·0	46	1	30	53·8	+1·5	47·4	−0·4
Buxton	8·0	—	50	1	29	54·2	+2·1	46·7	−0·5
Worksop	9·4	+ 4·1	59	2	26	55·6	—	51·1	—
Nottingham	9·0	+ 3·3	56	0	36	56·4	+1·6	50·7	+0·6
Birmingham	9·1	+ 4·3	57	0	34	52·4	+2·0	46·9	−0·7
Raunds	9·9	—	62	1	26	55·2	—	48·2	—
Oxford	11·0	+ 4·8	69	0	33	•	•	•	•
Malvern	10·3	—	65	0	34	56·9	—	51·4	—
Cheadle	•	•	•	0	35	•	•	•	•
Tenbury	•	•	•	0	32	56·2	—	—	—
Ross-on-Wye	9·7	—	62	0	33	—	—	—	—
Clifton	8·5	—	54	0	44	•	•	•	•
Worthing	10·3	+ 2·7	66	0	39	58·3	+0·6	52·4	−0·5
Marlborough	9·6	+ 3·6	61	0	32	56·6	—	51·1	—
Salisbury	•	•	•	0	35	58·8	•	•	•
Wisley	10·9	+ 4·2	69	1	26	55·9	−0·1	50·8	−1·3
Tunbridge Wells	10·6	+ 3·7	68	1	29	56·8	−0·9	51·5	—
Margate	10·6	+ 4·0	68	0	41	57·5	+2·2	53·6	+1·8
Folkestone	10·8	—	69	•	•	•	•	48·0	—
St. Leonards	12·0	+ 4·4	76	0	41	59·0	—	52·1	—
Southampton	10·9	+ 3·9	69	1	30	•	•	•	•
Ventnor	9·7	+ 2·5	62	•	•	•	•	•	•
Richmond	10·5	+ 4·0	67	0	34	57·0	+1·2	50·7	−0·7
Westminster	9·0	+ 3·4	57	0	39	•	•	•	•
Greenwich	11·1	+ 5·0	71	2	24	•	•	•	•
Hampstead	11·2	—	71	0	35	•	•	•	•
Camden Square	8·9	+ 3·2	57	0	38	•	•	•	•
Aspatria	7·8	+ 1·5	48	0	36	53·2	−0·3	48·3	−0·6
Newton Rigg	8·8	+ 2·3	54	1	30	53·9	+0·8	47·9	−1·0
Stonyhurst	6·9	+ 0·8	43	0	33	•	•	•	•
Blackpool	7·5	+ 0·2	47	1	29	52·3	—	48·5	—
Southport	8·3	+ 1·2	52	0	32	56·3	−0·3	53·5	+0·6
Hoylake	—	—	—	•	•	•	•	•	•
Liverpool	9·1	—	57	0	40	•	•	•	•
Manchester (City)	6·3	+ 0·9	39	0	40	56·6	+3·0	51·3	+0·7
Whitworth Park	7·1	+ 2·0	44	•	•	•	•	•	•
Llandudno	5·6	− 1·5	35	•	•	•	•	•	•
Holyhead	4·9	—	31	0	41	•	•	•	•
Aberdovey	—	—	—	•	•	•	•	•	•

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F	°F.		in.	mm.	mm		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
8. *a*, SOUTH WALES.																							
a Aberystwyth	59	67	20, 22	45	19th	62·9	48·1	55·1	—	3	0·25	6	—	Aberystwyth ..	6·0	- 0·3	38	•	•	•	•	•	•
a Rhayader	757	71	22nd	38	18th	65·4	42·9	53·5	—	1	0·03	1	—	Rhayader ..	7·7	—	48	2	28	•	•	•	•
a St. Ann's Head	149	60	19th	45	19, 23	56·1	47·4	51·5	- 0·3	4	0·49	12	+ 1	St. Ann's Head	4·5	- 2·5	28	•	•	•	•	•	•
p Cardiff	202	71	22nd	44	18, 20	65·9	47·0	55·9	+ 2·6	0	0·00	0	- 14	Cardiff	7·2	—	46	0	36	57·5	+1·4	50·6	-0·9
b, ENGLAND, S.W.																							
a Bath	66	75	22nd	41	18th	69·1	47·0	57·4	+ 3·6	0	0·00	0	- 11	Bath	•	•	•	—	—	58·0	+1·3	52·1	—
a Shaftesbury	722	70	23rd	42	18th	64·9	46·1	54·9	+ 2·6	0	0·00	0	- 12	Shaftesbury ..	•	•	•	•	—	55·1	—	50·3	—
a Arlington	613	64	24th	42	19th	62·0	47·7	54·4	+ 2·6	2	0·11	3	- 14										
a Newquay	190	60	23, 24	42	19th	58·3	48·1	52·9	- 0·2	3	0·57	14	+ 4	Newquay ..	4·2	- 2·9	27	0	38	56·3	—	52·0	—
a Cullompton	202	72	22, 23	38	18th	68·1	46·3	56·6	+ 2·9	0	0·00	0	- 12	Cullompton ..	5·5	- 0·9	35	0	33	57·6	•	•	•
a Portland Bill	19	60	22–24	47	19th	57·3	49·3	53·1	+ 0·1	0	0·00	0	- 9	Weymouth ..	8·2	—	53	•	•	•	•	•	•
p Plymouth	116	66	23rd	43	19th	61·3	50·3	55·5	+ 1·2	3	0·24	6	- 6	Plymouth ..	3·8	- 3·2	24	0	40	57·3	+0·1	52·3	—
a Falmouth	167	65	24th	44	19th	59·7	48·0	53·5	+ 0·1	3	0·66	17	+ 4	Falmouth ..	4·4	- 3·0	28	0	36	57·9	—	54·3	—
9. IRELAND, N.																							
a West .. *a* Malin Head	208	65	22nd	47	19th	61·4	48·4	54·5	+ 3·9	5	0·36	9	- 1	Malin Head ..	6·7	—	41	•	•	•	•	•	•
a Blacksod Point ..	327	61	19th	46	19, 23, 24	57·7	47·3	52·2	+10·3	4	0·22	6	- 8	Markree Castle	5·2	- 0·9	32	0	38	55·4	0·0	49·7	-0·7
p Markree Castle ..	122	65	21, 22	45	19th	62·6	47·9	54·8	+ 3·7	4	0·47	12	- 2										
b, East .. *p* Armagh	196	67	22nd	45	19th	62·3	48·3	54·9	+ 3·4	4	0·77	20	+ 8	Armagh	6·1	0·0	36	0	41	54·9	+0·3	50·2	-0·5
a Donaghadee	101	65	22, 24	744	20th	59·6	46·7	52·8	+ 1·7	4	0·68	17	+ 6										
10. IRELAND, S.																							
p Dublin, City	47	66	23rd	47	19, 23	62·6	50·0	55·9	+ 2·3	4	0·45	11	0	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
a Birr Castle	175	65	21, 22	45	19th	64·0	48·3	55·7	+ 3·6	4	0·29	7	- 5	Phœnix Park ..	3·9	- 2·8	24	0	33	•	•	•	•
a Kilkenny	212	66	24th	44	19th	61·4	48·0	54·3	+ 1·8	4	0·87	22	+ 10	Dublin City ..	•	•	•	0	42	•	•	•	•
a Waterford	120	62	24th	46	19th	58·9	48·9	53·6	+ 0·4	4	1·46	37	+ 25	Birr Castle ..	6·8	+ 0·8	40	0	37	•	•	•	•
p Seskin, Carrick-on-Suir	541	64	24th	43	19, 20	59·1	46·3	52·3	—	3	1·04	27	—	Seskin	5·1	—	32	0	38	•	•	•	•
a Cahir	199	63	22, 23	41	19th	60·7	48·3	54·1	+ 1·6	4	0·79	20	—										
a Foynes	50	67	24th	44	19th	63·1	48·4	55·3	+ 2·1	4	0·37	9	- 4										
a Cahirciveen (Val. Obs.)	30	63	24th	48	19th	59·6	50·3	54·7	+ 1·6	3	1·26	32	+ 15	Cahirciveen ..	4·9	- 1·8	31	0	45	•	•	•	•
a Killarney	174	70	24th	47	19th	63·6	49·7	56·2	+ 3·1	5	0·63	16	0	Ballinacurra ..	3·7	- 3·1	24	•	•	•	•	•	•
a Roche's Point	32	57	18, 21, 24	47	19th	55·9	49·6	52·6	- 0·3	6	0·57	14	+ 1										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	60	23, 24	49	19, 20, 23	58·1	49·9	53·8	+ 0·4	4	1·31	33	+ 22	Scilly	4·3	- 3·1	28	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	70	21st	42	19th	63·3	48·6	55·5	+ 0·5	0	0·00	0	- 13	St. Helliers ..	6·7	- 1·1	44	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	70	21st	44	19th	62·6	49·7	55·8	+ 1·0	0	0·00	0	- 12	Guernsey† ..	7·1	- 0·9	46	0	39	57·8	+0·1	53·9	-0·1

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, May 24th, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	17, 18, 20, 21	37	102	28	1	0	135	14	18	9	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	13	116	39	0	113	7	21	11	14	21	13	20
Aberdeen	153	105	52	—	—	—	—	25	109	34	0	146	9	21	13	16	21	13	0
Edinburgh	486	39	31	—	—	20	2	78	79	9	0	157	11	20	21	16	20	21	30
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	—	—	49	74	45	0	140	9	20	13	14	21	9	15
Paisley	188	81	15	—	—	—	—	12	113	43	0	180	8	21	18	15	21	17	20
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	15	75	70	8	135	7	18	12	13	18	12	25
South Shields	72	61	12	—	—	18	1	59	88	20	0	157	11	18	12	14	18	11	40
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	18	5	64	73	35	1	—	13	18	6	16	18	5	35
Shoeburyness	103	90	‡	—	—	19, 20	5	98	45	20	0	90	12	20	20	15	21	18	30
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	75	57	35	1	135	8	21	12	15	21	9	15
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	57	66	45	0	—	8	19	21	15	21	14	45
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	20	1	77	86	4	0	155	12	20	11	14	20	10	35
Richmond (Kew Obs.)..	82	66	22	—	—	—	—	14	101	53	0	68	7	19	12	12	19	13	0
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	—	65	103	0	135	4	21	10	9	21	10	10
Fleetwood (Cup Anr.) ..	109	44	—	—	—	19	1	53	89	25	0	101	11	19	10	—	—	—	—
Southport	80	62	48	—	—	—	—	79	87	2	0	124	10	19	12	16	20	10	35
Holyhead	60	40	‡	—	—	—	—	71	65	32	0	157	9	20	11	13	20	13	25
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	19	4	52	88	26	0	113	12	19	18	15	19	18	25
Plymouth	185	88	2	—	—	—	—	37	95	36	0	—	9	20	9	16	20	17	45
Lyme Regis	558	61	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	20	1	48	96	23	0	169	12	20	24	—	—	—	—
Quilty	100	40	‡	—	—	19, 20	19	88	44	17	0	—	16	19	15	23	19	14	50
Cahirciveen (Val. Obs.)	98	41	‡	—	—	19, 20	15	113	34	6	0	145	14	19	14	26	19	14	5
Weaver Pt.	160	50	‡	—	—	19, 20	20	110	38	0	0	—	14	19	23	19	19	23	55
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	34	39	95	0	135	9	19	16	13	20	0	55

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory
* Above tops of trees.
** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

TWENTY-FIRST WEEK of 1919—May 18th to May 24th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	72	35	88·3	81·0	84·4	+ 2·0	74	+ 23	0	− 3	2	− 2	0·13	3	− 10	7·1	+1·7	42	1022
Eastern.																			
1. SCOTLAND, EAST ...	76	28	90·8	79·5	84·8	+ 1·9	78	+ 20	0	− 4	1	− 3	0·03	1	− 11	7·3	+1·4	44	1023
2. ENGLAND, N.E.	80	30	90·4	80·1	84·9	+ 1·5	81	+ 19	0	− 1	1	− 2	0·09	2	− 10	9·5	+3·3	59	1024
3. ENGLAND, EAST ...	81	34	91·8	80·4	85·8	+ 1·2	91	+ 14	0	− 1	1	− 2	0·04	1	− 10	10·7	+3·9	67	1023
4. MIDLAND COUNTIES ...	82	32	93·5	79·8	86·2	+ 1·8	97	+ 21	0	− 1	1	− 2	0·06	2	− 11	9·1	+3·3	57	1022
5. ENGLAND, S.E.	78	35	92·2	81·1	86·3	+ 1·2	98	+ 14	0	0	0	− 3	0·00	0	− 11	10·6	+3·6	67	1022
Western.																			
6. SCOTLAND, WEST ...	71	33	90·6	80·9	85·4	+ 1·7	87	+ 21	0	− 1	3	− 0	0·20	5	− 9	5·9	−0·6	36	1023
7. ENGLAND, N.W.	76	31	91·3	81·2	85·9	+ 1·8	93	+ 22	0	0	1	− 2	0·31	8	− 3	7·4	+1·1	46	1022
8. ENGLAND, S.W.	75	38	90·2	81·4	85·6	+ 0·9	88	+ 11	0	0	1	− 2	0·15	4	− 9	5·2	−1·4	33	1021
9. IRELAND, NORTH ...	67	44	89·3	81·8	85·3	+ 1·5	85	+ 18	0	− 1	4	0	0·47	12	0	5·7	−0·5	35	1018
10. IRELAND, SOUTH ...	70	41	89·2	82·5	85·6	+ 1·0	89	+ 12	0	0	4	+ 1	0·74	19	+ 6	4·8	−1·7	30	1019
11. ENGLISH CHANNEL ...	70	42	89·3	82·7	85·8	+ 0·3	91	+ 6	0	0	1	− 2	0·44	11	0	6·0	−1·8	39	1021

THE SEASON (Spring).—Aggregates, &c., for the Period of 12 Weeks, March 2nd to May 24th, 1919.

0. SCOTLAND, NORTH ...	77	18	82·0	75·5	78·6	− 0·5	297	− 26	272	+ 55	55	+ 1	9·59	244	+ 4	4·6	+0·2	33	1011
Eastern.																			
1. SCOTLAND, EAST ...	76	11	82·7	74·8	78·5	− 0·9	334	− 50	319	+ 77	43	− 6	5·64	145	− 8	4·3	−0·4	31	1012
2. ENGLAND, N.E.	80	19	83·7	76·1	79·7	− 0·4	407	− 6	213	+ 46	41	− 2	5·00	126	+ 4	4·5	−0·6	33	1013
3. ENGLAND, EAST ...	81	21	84·5	76·4	80·3	− 0·4	482	− 33	191	+ 24	41	+ 1	4·89	126	+ 9	4·9	−0·5	36	1013
4. MIDLAND COUNTIES ...	82	22	84·7	76·2	80·3	− 0·4	486	− 45	217	+ 31	41	+ 2	7·00	178	+ 48	4·4	−0·4	32	1013
5. ENGLAND, S.E.	78	24	84·9	77·2	80·9	− 0·4	523	− 31	149	+ 30	40	+ 1	6·73	170	+ 45	4·9	−0·6	36	1013
Western.																			
6. SCOTLAND, WEST ...	75	20	83·5	76·2	79·7	− 0·5	400	− 28	224	+ 67	50	+ 2	7·92	201	− 14	4·4	−0·6	32	1013
7. ENGLAND, N.W.	78	19	83·6	76·9	80·1	− 0·5	426	− 24	187	+ 55	43	0	7·80	201	+ 44	4·5	−0·5	33	1013
8. ENGLAND, S.W.	78	21	84·2	77·2	80·5	− 0·7	458	− 56	155	+ 55	46	+ 4	8·45	216	+ 40	4·8	−0·6	35	1014
9. IRELAND, NORTH ...	70	22	83·7	76·6	80·0	− 0·6	414	− 38	193	+ 68	58	+ 5	7·49	188	+ 10	4·3	−0·4	31	1012
10. IRELAND, SOUTH ...	70	24	84·4	77·4	80·8	− 0·6	473	− 70	155	+ 63	57	+11	7·44	190	+ 1	4·3	−1·0	32	1015
11. ENGLISH CHANNEL ...	76	31	84·8	79·3	81·9	− 0·5	557	− 52	53	+ 26	48	+ 4	8·20	207	+ 64	5·6	−0·7	41	1015

THE YEAR 1919.—Aggregates, &c., for the Period of 21 Weeks, December 29th, 1918, to May 24th, 1919.

0. SCOTLAND, NORTH ...	77	11	80·1	74·2	77·1	− 0·8	301	− 81	680	+ 143	91	− 9	15·58	397	−118	3·3	+0·2	29	1009
Eastern.																			
1. SCOTLAND, EAST ...	76	5	80·2	73·5	76·8	− 1·1	334	−113	787	+ 171	80	− 5	11·31	290	+ 10	3·1	−0·5	27	1010
2. ENGLAND, N.E.	80	11	81·2	74·9	77·9	− 0·7	417	− 78	578	+ 106	83	+ 6	10·86	276	+ 65	3·2	−0·6	28	1010
3. ENGLAND, EAST ...	81	10	81·8	75·0	78·3	− 0·6	517	− 89	580	+ 86	81	+ 6	10·57	271	+ 65	3·4	−0·6	29	1011
4. MIDLAND COUNTIES ...	82	9	81·7	74·7	78·1	− 0·8	509	−123	628	+ 106	78	+ 4	13·23	336	+100	3·1	−0·5	27	1011
5. ENGLAND, S.E.	78	16	82·4	75·8	79·0	− 0·6	606	− 65	451	+ 72	82	+ 9	13·83	350	+111	3·5	−0·6	30	1011
Western.																			
6. SCOTLAND, WEST ...	75	14	81·3	75·1	78·1	− 0·8	417	− 97	539	+ 123	86	− 4	14·81	376	− 64	3·2	−0·4	28	1010
7. ENGLAND, N.W.	78	16	81·4	75·6	78·4	− 0·7	447	− 95	494	+ 112	82	+ 2	12·56	328	+ 23	3·3	−0·4	29	1010
8. ENGLAND, S.W.	78	15	82·1	76·1	79·0	− 0·8	540	−118	409	+ 106	89	+ 9	19·30	467	+114	3·7	−0·3	32	1011
9. IRELAND, NORTH ...	70	22	81·9	75·7	78·8	− 0·6	471	−105	437	+ 97	99	+ 2	13·16	331	− 19	3·4	−0·1	30	1009
10. IRELAND, SOUTH ...	70	22	82·7	76·4	79·5	− 0·7	583	−142	362	+ 102	98	+11	14·89	380	− 1	3·5	−0·4	30	1010
11. ENGLISH CHANNEL ...	76	26	83·3	78·4	80·8	− 0·5	725	−101	137	+ 32	96	+10	15·88	503	+210	4·1	−0·7	35	1012
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: May 30th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 22.

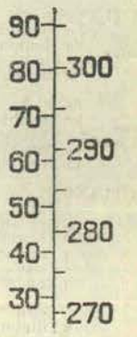
THE TWENTY-SECOND WEEK OF 1919.

SUNDAY, MAY 25TH, TO SATURDAY, MAY 31ST, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

The pressure distribution remained anticyclonic throughout the week, and, with the exception of Sunday, when showers fell in several places, the weather continued very fine and bright, with light winds, mainly from an easterly direction. The highest temperature over England and Ireland generally occurred on the 31st and over Scotland on the 28th. At Ford, Argyll, the thermometer reached 301 a., and several English stations reported maxima of 299 a.; on the other hand, at Margate on Monday the temperature did not rise above 286 a. Minima as low as 275 a. were reported at many places. The lowest was 274 a. at Cambridge on the 27th. At this station the mean daily range was as great as 17 a., from 277 a. to 294 a. In all the western Districts mean temperature was well above the normal, but in England East, where the cool winds from the North Sea were in evidence, it was below normal. Grass minima as low as 269 a. occurred at Greenwich and Wisley, and several stations had a reading only slightly higher. The showers on the first day of the week were light; at the majority of the stations the absolute drought continued. There was a thunderstorm at Balmoral on the 30th, and distant thunder was reported in other parts of Scotland and in England South-West. The excess of bright sunshine was about 4 hours in most Districts and several stations had a daily mean of nearly 12 hours. A solar halo accompanied by a sun-pillar was seen at Little Massingham, Norfolk, on the 25th, a sun-pillar at Seskin, Carrick-on-Suir, on the 26th, and a halo at Houton Bay, Orkney, on the 27th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.*		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	17	2·8	5	1·2	—	—	4	0·7	4	2·4	23	3·0	13	1·9	14	2·6
North	5	2·5	12	1·9	—	—	14	1·8	12	2·5	4	1·0	3	1·3	3	1·6
West	11	3·3	8	3·2	—	—	2	0·9	9	1·0	4	1·6	1	1·1	5	1·8
East	11	1·9	10	1·9	—	—	23	3·6	8	2·4	24	6·9	16	2·1	15	4·9
Calm	3	—	9	—	—	—	3	—	11	—	0	—	11	—	8	—

* For Scotland N. (Deerness) the week ends at midnight on Friday.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c., is printed on a separate sheet, *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ... Warmth ...	Very unusual	Unusual	Unusual	Moderate	Unusual	Moderate	Very unusual	Very unusual	Unusual	Very unusual	Very unusual	Unusual
Rainfall ...	Light	Light	Very light	Light	Very light	Very light	Nought	Very light	Nought	Very light	Very light	Light
Sunshine ...	Abundant	Abundant	Abundant	Very abundant	Very abundant	Abundant	Very abundant	Very abundant	Very abundant	Very abundant	Abundant	Abundant

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SPRING. 13 weeks from March 2nd, 1919. Warmth ...	4, 4, 5	4, 4, 5	5, 4, 4	4, 4, 5	4, 4, 5	4, 4, 5	4, 4, 5	5, 3, 5	4, 4, 5	3, 4, 6	3, 4, 6	3, 5, 5
Rainfall ...	5, 2, 6	4, 5, 4	5, 1, 7	3, 5, 5	5, 4, 4	4, 5, 4	3, 5, 5	5, 6, 2	5, 3, 5	3, 9, 1	2, 8, 3	4, 7, 2
Sunshine ...	6, 6, 1	5, 4, 4	3, 4, 6	4, 2, 7	4, 2, 7	4, 3, 6	3, 5, 5	3, 6, 4	4, 5, 4	2, 6, 5	2, 5, 6	3, 4, 6

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(23625—19.) Wt. 162—833/512. 625. 6/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.							Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.					Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																						
a, Islands — a Lerwick	54	62	27th	46	25, 30	56·6	47·6	51·8	+ 4·6	0	0·00	0	− 11									
a Houton Bay, Orkney	520	65	27, 28	43	29, 30, 31	58·3	44·0	50·7	—	2	0·10	3	− 8	Houton Bay	5·5	− 0·3	31	0	40	•	•	•	•
a Stornoway	51	68	27th	40	26th	61·0	46·9	53·5	+ 3·7	1	0·04	1	− 13	Stornoway	8·0	+ 1·6	46	•	•	•	•	•	•
a Castlebay, Barra I.	37	—	—	—	—	—	—	—	—	—	—	—	—	Castlebay	—	—	—	•	•	•	•	•	•
b, Mainland — a Wick	81	57	30th	41	26th	54·1	45·7	49·7	+ 0·5	2	0·24	6	− 5									
a Strathpeffer	125	78	28th	44	26th	70·7	47·6	58·5	+ 6·7	1	0·05	1	− 9									
p Glencarron	600	75	30th	38	26th	68·3	45·4	56·2	+ 5·8	0	0·00	0	− 24									
a Fort Augustus	68	78	28th	40	25, 26, 31	69·0	43·7	55·6	+ 4·4	0	0·00	0	− 13									
p Fort William	171	76	28th	40	26th	71·7	46·3	58·2	+ 5·6	0	0·00	0	− 21									
1. SCOTLAND, E.																						
a Nairn	82	76	27th	42	28th	64·9	44·7	54·2	+ 2·7	1	0·02	1	− 10	Nairn	8·6	—	50	•	•	•	•	•	•
p Gordon Castle	101	74	27th	43	26th	66·3	46·9	56·0	+ 4·2	0	0·00	0	− 12	Gordon Castle	9·4	—	55	•	•	•	•	•	•
a Aberdeen	46	68	28th	43	27th	59·9	47·3	53·2	+ 2·2	1	0·02	0·4	− 12	Aberdeen	6·3	− 0·4	37	0	35	•	•	48·3	+0·3
a Balmoral	930	78	28th	35	27th	69·1	43·0	55·3	+ 5·8	2	0·23	6	− 7	Balmoral	•	•	•	1	30	•	•	•	•
p Crieff	432	78	28th	42	26th	67·3	45·4	55·7	+ 2·7	0	0·00	0	− 15	Crathes	8·2	+ 1·9	48	0	37	55·6	+2·9	49·0	+0·3
a Dundee	244	73	28th	42	26, 27, 31	63 1	44·7	53·4	+ 0·9	0	0·00	0	− 12	Dundee	8·1	—	48	0	37	55·0	•	•	•
a Leith	30	72	28th	38	27th	61·9	47·1	54·1	+ 1·1	0	0·00	0	− 11	Leith	—	—	—	0	40	•	•	•	•
p Edinburgh	441	74	28th	44	26th	62·0	47·1	54·1	+ 2·7	0	0·00	0	− 11	Edinburgh	7·3	+ 0·9	43	0	35	•	•	•	•
a West Linton	769	75	28th	36	27th	67·1	40·6	53·1	+ 3·6	0	0·00	0	—	West Linton	7·9	—	47	0	32	•	•	•	•
p Marchmont	498	78	28th	43	25, 26	66·0	46·4	55·6	+ 4·4	0	0·00	0	− 14	Marchmont	8·7	+ 2·2	52	•	•	•	•	•	•
6. a, SCOTLAND, W.																						
a Ford (Argyll)	149	83	27th	36	26th	71·6	43·5	56·7	—	0	0·00	0	—	Ford (Argyll)	•	•	•	1	29	56·3	—	49·1	—
p Glasgow Observatory	180	75	28th	45	26th	68·7	49·1	58·3	+ 5·2	0	0·00	0	− 15	Glasgow	9·2	+ 3·6	54	0	35	•	•	•	•
p Rothesay	200	71	28, 30	43	26th	66·7	48·1	56·8	+ 3·7	0	0·00	0	− 18	Rothesay	11·4	—	67	0	38	57·4	—	50·4	0·0
a Kilmarnock	90	76	30th	41	26th	71·3	46·4	58·1	+ 5·7	0	0·00	0	− 14	Kilmarnock	11·0	—	66	•	•	58·6	—	49·8	—
a Colmonell	170	74	30th	40	26th	69·6	45·6	56·9	+ 4·7	0	0·00	0	− 15	Colmonell	•	•	•	0	35	•	•	•	•
p Cally, Gatehouse	120	76	29th	39	26th	70 9	46·3	57·9	+ 5·5	0	0·00	0	− 18	Dumfries	10·9	—	66	0	32	57·0	+0·9	50·4	−2·2
p Dumfries	160	75	28, 30, 31	43	26, 27	71·7	47·4	58·8	+ 5·1	0	0·00	0	− 14	Eskdalemuir	10·7	—	64	0	33	•	•	•	•
a Eskdalemuir	794	75	30th	39	26th	69·0	43·9	55·7	—	0	0·00	0	—										
b, I. OF MAN p Douglas	277	72	29, 30	47	26th	67·9	50·6	58·7	+ 6·0	0	0·00	0	− 14	Douglas	11·3	+ 3·7	69	0	42	•	•	•	•
2. ENGLAND, N.E.																						
a North — a Alnwick Castle	210	73	28th	40	26, 27, 31	64·1	44·7	53·8	+ 1·8	0	0·00	0	− 12									
a Tynemouth	71	67	28th	44	31st	58·7	47·0	52·5	+ 0·7	0	0·00	0·1	− 11	Cockle Park	7·6	+ 1·6	46	0	35	55·2	+1·6	49·9	+0·1
a Durham	336	75	28th	39	26th	67·9	44·1	55·3	+ 2·8	1	0·01	0·2	− 10	Durham	8·5	+ 2·8	51	1	30	•	•	•	•
p Rounton	249	78	28th	40	26th	68·7	44·8	56·0	+ 3·9	0	0·00	0	− 12	Rounton	•	•	•	1	27	55·3	•	•	•
a West Witton	605	77	28th	40	31st	69·7	46·4	57 4	—	1	0·02	1	—	West Witton	•	•	•	0	35	57·7	—	47·7	—
p Scarborough	100	67	28th	46	25, 31	61·7	47·7	54·3	+ 1·3	0	0·00	0	− 10	Scarborough†	9·2	+ 3·1	56	•	•	•	•	45·0	—
p York	56	78	28th	42	31st	70·1	47·9	58·3	+ 3·4	0	0·00	0	− 11	York	8·7	+ 2·9	53	—	—	56·7	+2·6	50·8	+0·1
b, South — a Spurn Head	26	65	27th	47	26th	59·1	49·7	54·1	+ 0·7	0	0·00	0·1	− 8	Spurn Head	5·8	—	35	•	•	•	•	•	•
a Lincoln	58	77	29th	45	27th	70·1	49·3	59·1	+ 3·5	1	0·07	2	− 9	Lincoln	•	•	•	0	40	58·4	+2·3	51·8	+0 8
a Fulbeck	180	75	29th	42	27th	68·9	47·1	57 4	+ 2·4	1	0·15	4	− 7	Fulbeck*	10·1	+ 3·4	62	•	•	—	—	—	—
														Skegness	11·7	+ 4·6	72	•	•	•	•	•	•
3. ENGLAND, E.																						
p Cromer	196	66	28, 29	45	27, 28	61·3	46·7	53·6	− 0·4	1	0·34	9	0	Cromer	11·2	+ 4·3	69	•	•	•	•	•	•
a Little Massingham	280	76	29th	39	27th	67·1	44·0	54·9	0·0	3	0·26	7	− 4	Lit. Massingham	11·3	+ 4·4	69	•	•	•	•	•	•
a Yarmouth	13	60	31st	44	28th	57·0	43·6	52·6	− 1·5	1	0·28	7	− 2	Yarmouth	11·3	—	70	0	42	58·9	−0·3	55·0	+0·3
a Norwich	93	74	29th	41	28th	66·3	45·7	55 4	+ 0·1	1	0·23	6	− 4	Norwich	11·0	—	68	0	36	58·3	•	•	•
a Geldeston	37	70	29th	36	28th	63·6	41·7	52·0	− 2·7	1	0·18	5	− 5	Geldeston	10·7	+ 3·3	66	•	•	•	•	•	•
p Cambridge	41	78	31st	33	27, 28	70·0	39·7	53·9	− 2·0	1	0·12	3	− 7	Cambridge	10·6	+ 3·5	68	3	27	58·5	+0·6	52·8	−0·9
a Clacton-on-Sea	54	63	31st	45	27, 28	59·0	48·9	53·7	− 1·1	1	0·25	6	− 2	Clacton	10·3	+ 2·4	64	0	38	57·8	+0·9	54·1	+0·2
a Rothamsted	424	74	31st	41	28th	67·9	44·1	55·3	+ 0·4	0	0·00	0	− 11	Rothamsted	10·5	+ 3·6	65	2	28	56·8	•	•	•
p Tottenham	51	75	31st	43	28th	68·9	47·4	57·5	—	1	0·10	3	—	Tottenham	10·5	—	65	0	41	•	•	54·7	+0·3
4. MIDLAND COUNTIES.																						
a North — a Harrogate	479	75	28, 29	40	31st	69·4	46·3	57·2	+ 4·5	1	0·03	1	− 11	Harrogate	8·2	+ 1·8	50	0	35	55·0	+2·8	51·3	+1·1
p Sheffield	429	73	28, 29	42	31st	68·0	49·0	57·9	—	1	0·13	3	—	Sheffield	6·3	+ 0·5	39	0	35	55·5	+1·9	48·8	−0·1
p Buxton	987	72	29, 31	37	31st	66·9	43·9	54·7	—	1	0·19	5	− 12	Buxton	7·9	—	48	0	35	57·1	+3·5	48·5	+0·3
b, East — a Bawtry	65	75	28th	40	31st	70·7	46·0	57·6	+ 2·6	1	0·14	4	− 6	Worksop	9·2	+ 3·4	56	0	32	57·5	—	52·5	—
a Nottingham	82	76	29th	43	27th	70·1	48·1	58·4	+ 3·3	1	0·16	4	− 7	Nottingham	9·8	+ 3·6	60	0	33	58·3	+1·8	52·5	+1·1
p Birmingham, Edgbsn.	535	76	31st	44	31st	69·7	49·3	58·9	+ 3·9	1	0·06	2	− 10	Birmingham	9·9	+ 4·7	61	0	32	55·5	+3·8	48·4	+0·1
a Raunds	203	77	31st	36	27th	70·7	43·1	56·1	+ 0·7	1	0·06	1	− 10	Raunds	10·9	—	68	1	29	56·9	•	49·6	—
p Oxford	208	78	31st	41	27th	71·1	45·7	57·6	+ 1·6	0	0·00	0	− 11	Oxford	11·4	+ 4·7	71	0	33	•	•	•	•
														Malvern	—	—	—	—	—	—	—	—	—
c, West — a Cheadle (N. Staffs.)	646	74	29th	43	31st	67·9	47·7	57·2	+ 3·6	1	0·06	2	− 11	Cheadle	•	•	•	0	42	•	•	•	•
p Tenbury	313	77	31st	38	28, 31	70·7	43·1	56·1	+ 1·6	1	0·07	2	− 8	Tenbury	•	•	•	0	34	59·4	—	—	—
p Ross-on-Wye	201	76	31st	40	28th	71·3	46·0	57·9	+ 2·2	1	0·06	2	− 9	Ross-on-Wye	11·3	—	70	0	35	—	—	—	—
a Clifton	226	78	31st	47	28th	71·4	49·9	60·0	+ 2·8	0	0·00	0	− 15	Clifton	10·2	—	64	0	45	•	•	•	•
5. ENGLAND, S.E.																						
a Marlborough	424	77	31st	37	27, 28	71·3	42·7	56·1	+ 1·8	1	0·01	0·2	− 12	Worthing	11·6	+ 3·6	73	0	40	59·4	+0·1	53·8	−0·3
p Salisbury (Wilton)	180	76	30, 31	39	28, 29	71·9	44·7	57·5	+ 1·5	0	0·00	0	− 12	Marlborough	10·7	+ 4·3	67	1	30	58·8	—	52·3	—
a Wisley, Surrey	150	78	31st	36	28th	70·7	43 7	56·4	+ 0·7	1	0·08	2	− 7	Salisbury	•	•	•	0	35	61·0	•	•	•
a Tunbridge Wells	364	74	31st	39	28th	67·0	45·1	55·4	0·0	1	0·01	0	− 11	Wisley	10·6	+ 3·5	66	3	26	57·0	−0·5	51·9	−1·4
a Margate	51	67	25th	46	28th	59·7	50·0	54·6	− 1·2	1	0·09	2	− 7	Tunbridge Wells	9·4	+ 2·1	59	2	28	57·8	−1·8	52·9	—
														Margate	7·9	+ 1·0	49	0	41	59·0	+1·9	55·4	+2·3
a Dungeness	21	65	31st	40	27th	59·4	48·6	53·7	− 1·5	1	0·04	1	− 7	Folkestone	9·3	—	58	•	•	•	•	49·4	—
p St. Leonards	178	70	29th	45	27, 28	64·7	48·7	56·2	+ 0·5	1	0·02	1	− 8	St. Leonards	10·6	+ 2·6	66	0	40	59·4	—	53·6	—
p Southampton	64	76	30th	44	27th	68·9	48·7	58·2	+ 0·7	0	0·00	0	− 11	Southampton	11·2	+ 3·8	70	0	33	•	•	•	•
a Ventnor	59	69	25, 30	47	27th	65·7	52·7	58·8	+ 2·3	0	0·00	0	− 10	Ventnor	10·3	+ 2 7	65	•	•	•	•	•	•
LONDON, a Richmond (Kew Obs.)	18	75	31st	41	28th	68·8	47·3	57·4	+ 0·8	0	0·00	0	− 11	Richmond	10·1	+ 3·2	63	2	30	57·6	+0·4	52·0	−0·6
a Westminster	27	75	31st	47	28th	69·0	50·0	58·9	+ 1·6	1	0·02	0·4	− 10	Westminster	10·0	+ 4·0	63	?	?	•	•	•	•
ag Greenwich	149	74	31st	39	28th	68·1	45·1	55 9	+ 0·3	1	0·10	3	− 8	Greenwich	10·6	+ 4·3	66	3	25	•	•	•	•
a Hampstead	450	73	31st	44	27th	66·7	46·9	56·2	—	1	0·01	0	—	Hampstead	10·8	—	68	0	36	•	•	•	•
ag Camden Square	110	80	31st	44	28th	73·6	46·7	59·3	+ 1·0	0	0·00	0	− 11	Camden Square	9·4	+ 3·3	59	0	39	•	•	•	•
7. a, ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	71	30th	45	26, 30	66·7	48·3	57·0	+ 3·9	0	0·00	0	− 15	Aspatria	11·3	+ 4·5	68	0	43	56·2	+1·1	49 7	−0·1
p Newton Rigg	559	78	29th	41	27th	74·0	45·9	59·1	+ 6·4	0	0·00	0	− 14	Newton Rigg	11·8	+ 4·9	71	0	38	56·9	+2·4	49·9	+0·3
p Stonyhurst	375	73	31st	45	31st	69·6	49·1	58·7	+ 5·1	0	0·00	0	− 18	Stonyhurst	8·3	+ 1·9	51	0	36	•	•	•	•
p Blackpool	66	74	30th	45	31st	67·1	48·1	57·0	+ 3·2	1	0·01	0	− 13	Blackpool	10 0	+ 2·3	61	0	32	54·1	—	49·1	—
a Southport	37	73	29th	44	31st	67·3	47·9	57·0	+ 2·8	0	0·00	0·1	− 13	Southport	10 0	+ 2·5	61	0	35	59·7	+1·7	54·9	+0·7
														Hoylake	—	—	—	•	•	•	•	•	•
a Liverpool (Bidston)	188	76	29th	48	26th	69·4	51·4	59·9	+ 5·1	1	0·24	6	− 6	Liverpool	10·1	—	62	0	41	•	•	•	•
a Hawarden Bridge	22	77	29th	46	28th	71·9	49·3	59·9	+ 4·6	1	0·22	6	− 5	Manchester (City)	4·9	− 0·8	30	0	39	58·5	+3·0	53·4	+1·5
p Manchester (Whit. Pk.)	125	77	29, 31	44	31st	70·7	48·4	58·9	+ 3·2	1	0·10	3	− 11	Whitworth Park	7·4	+ 1·9	45	•	•	•	•	•	•
b NORTH WALES.																						
p Llandudno	16	76	29th	49	25, 26, 31	66·7	50·3	58·0	+ 3·2	1	0·02	1	− 11	Llandudno	11·2	+ 3·7	69	•	•	•	•	•	•
a Holyhead	15	71	30, 31	48	25, 26	65·2	50·0	57·5	+ 3·9	1	0·04	1	− 11	Holyhead	11·2	—	69	0	40	•	•	•	•
a Beddgelert	309	77	31st	46	28th	71·3	50·0	60·0	—	0	0·00	0	—	Aberdovey	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

• Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average.
8. *a.* SOUTH WALES.	Ft.	°F.		°F.		°F.	°F.	°F	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
a Aberystwyth	59	78	30th	49	28th	69·0	51·6	59·8	—	0	0·00	0	—	Aberystwyth ..	11·6	+ 5·0	73	*	*	*	*	*	*
a Rhayader	757	75	31st	38	28th	67·9	43·3	54·9	—	1	0·02	1	—	Rhayader ..	10·4	—	65	4	28	*	*	*	*
a St. Ann's Head	149	72	31st	47	26, 28	63·9	49·7	56·4	+ 2·9	1	0·01	0·3	- 10	St. Ann's Head	10·9	+ 3·5	68	*	*	*	*	*	*
p Cardiff	202	76	31st	44	28th	69·6	48·3	58·3	+ 3·1	0	0·00	0	- 12	Cardiff	10·8	—	67	0	37	59·6	+1·8	52·4	-2·4
b. ENGLAND, S.W.																							
a Bath	66	77	31st	42	28th	71·9	46·9	58·7	+ 3·0	0	0·00	0	- 10	Bath	*	*	*	*	*	60·1	+1·9	54·0	—
a Shaftesbury	722	72	30th	43	27th	67·6	47·3	56·8	+ 2·6	0	0·00	0	- 11	Shaftesbury ..	*	*	*	*	*	57·8	—	52·1	—
a Arlington	613	75	31st	45	27th	68·9	49·4	58·6	+ 5·0	0	0·00	0	- 15										
a Newquay	190	71	30th	48	27th	64·3	50·6	57·0	+ 2·2	0	0·00	0	- 9	Newquay ..	10·3	+ 2·9	65	0	43	58·7	—	53·0	—
a Cullompton	202	78	30th	38	28th	72·1	45·3	57·9	+ 2·4	0	0·00	0	- 11	Cullompton ..	9·8	+ 3·2	62	0	31	60·6	*	*	*
a Portland Bill	19	63	25th	48	27th	59·6	51·0	55·0	+ 0·3	0	0·00	0	- 7	Weymouth ..	10·2	—	64	*	*	*	*	*	*
p Plymouth	116	70	31st	49	27th	66·4	52·1	58·8	+ 2·8	0	0·00	0	- 10	Plymouth ..	11·3	+ 4·0	71	0	44	60·0	+1·6	53·5	—
a Falmouth	167	66	25, 31	49	25th	62·9	51·3	56·8	+ 1·7	0	0·00	0	- 11	Falmouth ..	9·3	+ 1·6	58	0	43	61·0	—	55·9	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	69	28th	47	26th	61·7	51·0	56·0	+ 4·0	0	0·00	0	- 12	Malin Head ..	11·1	—	66	*	*	*	*	*	*
{ *a* Blacksod Point ..	327	73	30th	46	25th	67·7	50·6	58·6	+ 5·3	0	0·00	0	- 16	Markree Castle	10·0	+ 3·9	61	0	38	59·3	+2·8	51·9	+0·5
{ *p* Markree Castle ..	122	76	30th	45	30th	71·0	47·3	58·4	+ 5·8	1	0·03	1	- 16										
b. East .. { *p* Armagh	196	76	30th	44	27th	71·1	48·0	58·9	+ 5·8	1	0·02	1	- 13										
{ *a* Donaghadee	101	70	28th	42	25th	62·6	47·9	54·8	+ 2·3	1	0·01	0·2	- 13	Armagh	10·4	+ 4·3	63	0	38	57·7	+1·9	51·7	0·0
10. IRELAND, S.																							
p Dublin, City	47	70	27th	52	27–29	66·7	53·4	59·7	+ 4·5	0	0·00	0	- 12	Trinity Coll. ..	*	*	*	—	—	—	—	—	—
a Birr Castle	175	76	31st	43	28th	70·9	48·4	59·0	+ 5·3	1	0·02	0·4	- 13	Phœnix Park ..	10·8	+ 4·1	66	0	33	*	*	*	*
a Kilkenny	212	76	31st	43	28th	69·1	48·3	58·1	+ 4·0	1	0·01	0·2	- 13	Dublin City ..	*	*	*	0	46	*	*	*	*
a Waterford	120	74	31st	46	27, 28	68·0	49·6	58·3	+ 3·5	0	0·00	0	- 14	Birr Castle ..	9·6	+ 3·7	59	0	37	*	*	*	*
p Seskin, Carrick-on-Suir	541	75	31st	46	27, 28	67·6	49·4	58·0	—	0	0·00	0	—	Seskin	10·8	—	67	0	37	*	*	*	*
a Cahir	199	77	31st	40	29th	68·4	48·7	58·0	+ 3·9	0	0·00	0	—										
a Foynes	50	76	31st	45	28th	70·1	50·3	59·6	+ 5·0	0	0·00	0	- 14										
a Cahirciveen (Val. Obs.)	30	74	30th	48	30, 31	68·9	52·0	59·9	+ 5·5	1	0·04	1	- 17	Cahirciveen ..	7·7	+ 1·0	48	0	33	*	*	*	*
a Killarney	174	80	31st	47	30th	71·9	51·3	61·0	+ 6·5	1	0·01	0	- 17	Ballinacurra ..	9·1	+ 2·4	57	*	*	*	*	*	*
a Roche's Point	32	69	30th	42	29th	61·1	50·7	55·6	+ 1·3	2	0·06	1	- 14										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	64	31st	50	25, 26	59·7	51·3	55·3	+ 0·2	0	0·01	0·2	- 11	Scilly	6·5	- 1·3	41	*	*	*	*	*	*
a Jersey, St. Aubins ..	25	73	30th	48	25, 26	67·4	51·7	59·1	+ 2·4	1	0·12	3	- 10	St. Heliers ..	11·0	+ 2·9	70	*	*	*	*	*	*
a Guernsey (Villa Carey)	180	68	30th	50	27, 28	64·1	51·3	57·3	+ 0·8	1	0·19	5	- 7	Guernsey† ..	10·7	+ 2·3	68	0	41	59·6	+0·5	55·1	-0·1

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, May 31st, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
0. SCOTLAND, N.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m./s.	d.	h.	m.
Deerness (Cup Anr.)** ..	188	16	5	—	—	—	—	23	130	15	0	293	8	24	13	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	—	51	117	0	135	4	29	15	8	28	12	45
Aberdeen	153	105	52	—	—	—	—	—	55	113	0	146	5	29	14	7	29	16	55
Edinburgh	486	39	31	—	—	—	—	—	120	48	0	326	5	28	11	7	28	10	45
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	—	—	10	84	74	0	50	7	31	17	9	31	17	5
Paisley	188	81	15	—	—	—	—	—	103	65	0	79	4	31	17	9	31	21	35
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	—	31	137	0	360	4	25	11	8	25	11	10
South Shields	72	61	12	—	—	—	—	14	91	63	0	146	8	30	14	9	30	13	30
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	—	—	9	113	46	0	—	7	30	2	8	30	2	25
Shoeburyness	103	90	‡	—	—	—	—	46	95	27	0	67	8	30	15	11	26	17	15
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	6	118	44	0	90	7	29	16	11	29	14	0
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	51	91	26	0	—	9	29	22	16	29	21	55
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	50	113	5	0	90	9	30	11	13	29	12	40
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	17	96	55	0	68	7	30	13	10	30	12	15
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	—	3	165	0	225	2	25	16	5	25	16	0
Fleetwood (Cup Anr.) ..	109	44	—	—	—	—	—	5	117	46	0	304	8	25	17	—	—	—	—
Southport	80	62	48	—	—	—	—	25	133	10	0	79	7	29	24	10	29	21	15
Holyhead	60	40	‡	—	—	—	—	9	80	79	0	11	7	30	14	9	25	3	40
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	27 to 30	58	43	51	16	0	113	15	27	13	19	30	11	0
Plymouth	185	88	2	—	—	—	—	51	105	12	0	—	10	30	14	18	30	12	0
Lyme Regis (Rousdon)	600	65	—	—	—	—	—	5	131	32	0	—	7	30	11	10	30	10	10
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	—	—	3	91	74	0	146	6	28	11	—	—	—	—
Quilty	100	40	‡	—	—	27, 28	5	56	49	58	0	—	12	28	12	16	28	12	5
Cahirciveen (Val. Obs.)	88	41	‡	—	—	27	4	42	77	46	0	115	12	27	22	17	27	22	10
Weaver Pt.	160	30	‡	—	—	27, 28	4	79	76	8	1	—	11	27	11	16	28	8	15
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	27, 30	3	69	41	55	0	113	11	30	11	16	27	13	45

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting.
§ Direction from the Robinson Anemometer at Falmouth Observatory
* Above tops of trees.
** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

TWENTY-SECOND WEEK of 1919—May 25th to May 31st, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	78	38	91·1	80·9	85·7	+ 2·4	90	+ 30	0	− 1	1	− 3	0·05	1	− 14	6·8	+1·2	39	1023
Eastern.																			
1. SCOTLAND, EAST ...	78	35	91·5	80·3	85·6	+ 1·7	89	+ 22	0	− 1	1	− 2	0·03	1	− 12	7·9	+1·4	46	1022
2. ENGLAND, N.E.	78	39	91·6	81·3	86·1	+ 1·4	95	+ 17	0	0	1	− 2	0·03	1	− 10	9·3	+3·0	57	1022
3. ENGLAND, EAST ...	78	33	91·1	80·3	85·4	− 0·4	86	− 6	0	0	1	− 2	0·20	5	− 5	10·8	+3·6	67	1022
4. MIDLAND COUNTIES ...	78	36	94·3	81·1	87·3	+ 1·7	110	+ 20	0	0	1	− 2	0·06	2	− 10	9·5	+3·2	59	1022
5. ENGLAND, S.E.	78	36	92·3	81·4	86·6	+ 0·4	101	+ 4	0	0	1	− 2	0·03	1	− 9	10·2	+2·8	64	1021
Western.																			
6. SCOTLAND, WEST ...	83	36	94·0	81·4	87·3	+ 2·7	111	+ 35	0	0	0	− 4	0·00	0	− 17	10·3	+3·7	61	1022
7. ENGLAND, N.W.	78	41	93·6	82·4	87·7	+ 2·5	115	+ 32	0	0	1	− 2	0·07	2	− 12	10·5	+3·8	64	1021
8. ENGLAND, S.W.	78	38	92·5	82·2	87·0	+ 1·3	106	+ 16	0	0	0	− 3	0·00	0	− 11	10·5	+3·6	66	1021
9. IRELAND, NORTH ...	76	42	92·7	82·4	87·2	+ 2·6	109	+ 32	0	0	1	− 3	0·01	0	− 15	10·2	+4·1	62	1021
10. IRELAND, SOUTH ...	80	40	93·2	83·2	87·9	+ 2·5	118	+ 31	0	0	1	− 2	0·02	1	− 14	9·3	+2·8	58	1020
11. ENGLISH CHANNEL ...	73	48	90·6	83·8	87·0	+ 0·7	106	+ 9	0	0	1	− 2	0·11	3	− 9	9·4	+1·3	60	1019

THE SEASON (Spring).—Aggregates, &c., for the Period of 13 Weeks, March 2nd to May 31st, 1919.

0. SCOTLAND, NORTH ...	78	18	82·7	75·9	79·2	− 0·2	387	+ 4	272	+ 54	56	− 2	9·64	245	− 10	4·8	+0·4	34	1012
Eastern.																			
1. SCOTLAND, EAST ...	78	11	83·3	75·2	79·1	− 0·6	423	− 28	319	+ 76	44	− 8	5·67	146	− 20	4·6	−0·3	33	1013
2. ENGLAND, N.E.	80	19	84·3	76·5	80·2	− 0·2	502	+ 11	213	+ 46	42	− 4	5·03	127	− 6	4·9	−0·3	35	1013
3. ENGLAND, EAST ...	81	21	85·0	76·7	80·7	− 0·4	568	− 39	191	+ 24	42	− 1	5·09	131	+ 4	5·3	−0·2	39	1014
4. MIDLAND COUNTIES ...	82	22	85·4	76·6	80·8	− 0·2	596	− 25	217	+ 31	42	0	7·06	180	+ 38	4·8	−0·1	34	1014
5. ENGLAND, S.E.	78	24	85·5	77·5	81·3	− 0·4	624	− 27	149	+ 30	41	− 1	6·76	171	+ 36	5·3	−0·3	38	1014
Western.																			
6. SCOTLAND, WEST ...	83	20	84·3	76·6	80·3	− 0·2	511	+ 7	224	+ 67	50	− 2	7·92	201	− 31	4·9	−0·2	35	1014
7. ENGLAND, N.W.	78	19	84·4	77·3	80·7	− 0·2	541	+ 8	187	+ 55	44	− 2	7·87	203	+ 32	4·9	−0·3	36	1014
8. ENGLAND, S.W.	78	21	84·8	77·6	81·0	− 0·6	564	− 40	155	+ 55	46	+ 1	8·45	216	+ 29	5·3	−0·2	38	1015
9. IRELAND, NORTH ...	76	22	84·4	77·0	80·5	− 0·4	523	− 6	193	+ 68	59	+ 2	7·50	188	− 5	4·7	−0·1	34	1013
10. IRELAND, SOUTH ...	80	24	85·1	77·9	81·3	− 0·4	591	− 39	155	+ 63	58	+ 9	7·46	191	− 13	4·7	−0·7	34	1015
11. ENGLISH CHANNEL ...	76	31	85·2	79·7	82·3	− 0·4	663	− 43	53	+ 26	49	+ 2	8·31	210	+ 55	5·9	−0·5	43	1015

THE YEAR 1919.—Aggregates, &c., for the Period of 22 Weeks, December 29th, 1918, to May 31st, 1919.

0. SCOTLAND, NORTH ...	78	11	80·6	74·5	77·5	− 0·7	391	− 51	680	+ 142	92	−12	15·63	398	−132	3·5	+0·3	30	1010
Eastern.																			
1. SCOTLAND, EAST ...	78	5	80·8	73·8	77·2	− 1·0	423	− 91	787	+ 170	81	− 7	11·34	291	− 2	3·4	−0·3	29	1010
2. ENGLAND, N.E.	80	11	81·7	75·2	78·3	− 0·6	512	− 61	578	+ 106	84	+ 4	10·89	277	+ 55	3·5	−0·5	30	1011
3. ENGLAND, EAST ...	81	10	82·2	75·2	78·6	− 0·6	603	− 95	580	+ 86	82	+ 4	10·77	276	+ 60	3·7	−0·5	32	1012
4. MIDLAND COUNTIES ...	82	9	82·3	75·0	78·6	− 0·6	619	−103	628	+ 106	79	+ 2	13·29	338	+ 90	3·4	−0·3	29	1011
5. ENGLAND, S.E.	78	16	82·8	76·1	79·4	− 0·5	707	− 61	451	+ 72	83	+ 7	13·86	351	+102	3·8	−0·4	32	1012
Western.																			
6. SCOTLAND, WEST ...	83	14	81·9	75·4	78·5	− 0·6	528	− 62	539	+ 123	86	− 8	14·81	376	− 81	3·6	−0·1	30	1011
7. ENGLAND, N.W.	78	16	81·9	75·9	78·8	− 0·6	562	− 63	494	+ 112	83	0	12·93	330	+ 11	3·6	−0·2	31	1011
8. ENGLAND, S.W.	78	15	82·6	76·4	79·4	− 0·7	646	−102	409	+ 108	89	+ 6	18·30	467	−103	4·0	−0·1	34	1011
9. IRELAND, NORTH ...	76	22	82·4	76·0	79·1	− 0·6	580	− 78	437	+ 97	100	− 1	13·17	331	− 34	3·7	+0·1	32	1010
10. IRELAND, SOUTH ...	80	22	83·2	76·8	79·9	− 0·6	701	−111	362	+ 102	99	+ 9	14·91	381	− 15	3·7	−0·3	32	1011
11. ENGLISH CHANNEL ...	76	26	83·6	78·7	81·1	− 0·4	831	− 92	137	+ 32	97	+ 8	15·99	506	+201	4·3	−0·6	36	1012
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: June 6th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—
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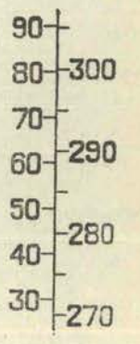
FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) No. 23.

THE TWENTY-THIRD WEEK OF 1919.
SUNDAY, JUNE 1ST, TO SATURDAY, JUNE 7TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

At the beginning of the week barometric pressure was high to the west of the British Isles and low over the Scandinavian region. As the week advanced the anticyclone withdrew towards the Azores, and depressions from the Atlantic skirted our western coasts. Under the influence of the latter systems the aggregate rainfall in the north of Scotland and north of Ireland was above the normal, the totals diminishing to only 2mm. or 3mm. in the more eastern and southern districts; in the English Channel district the week was rainless, but the absolute drought, which had lasted for 24 days over the greater part of England, was broken on Tuesday or Wednesday by slight showers in most districts. Thunder and lightning were experienced on Sunday evening over a strip of country lying across the South Midlands from Ross-on-Wye to Raunds (Northants). Mean temperature was everywhere above the normal, the divergence ranging from 0·2 a. in England East to 2·1 a. in Scotland East and Ireland South. The highest readings of the week occurred as a rule on Saturday, when 300 a. was recorded over the greater part of England and 302 a. in several places in the East Midland and Eastern Counties. On the other hand there was a very cold snap on Tuesday, the maxima for the day at Cromer and Norwich being only 284 a. Minima of 271 a. in the screen and 270 a. on the grass were registered at West Linton on the 3rd. A sea fog set in along the south-west and south coast of England at the close of the week, as the result of which temperature was about 5 a. lower on Saturday than on Friday. Solar halos were seen in various parts of Great Britain on the 3rd, 5th, and 6th, and a lunar halo at Birmingham on the 5th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.*		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	5	2·2	7	4·0	—	—	4	3·1	9	4·8	7	3·5	9	3·7	9	4·4
North	21	3·8	8	1·6	—	—	16	2·4	17	3·5	20	4·5	12	2·6	8	2·4
West	24	4·7	18	6·2	—	—	13	1·8	22	2·7	16	3·0	15	6·2	13	2·3
East	1	1·1	5	2·1	—	—	7	2·3	3	0·9	8	1·6	6	2·0	4	1·2
Calm	2	—	3	—	—	—	6	—	1	—	0	—	2	—	10	—

* For Scotland N. (Deerness) the week ends at midnight on Friday.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Unusual	Very Unusual	Moderate	Unusual	Moderate	Unusual	Unusual	Unusual	Unusual	Very unusual	Moderate
	Rainfall ...	Heavy	Moderate	Light	Very light	Light	Very light	Moderate	Light	Light	Moderate	Light	Nought
	Sunshine ...	Very Scanty	Scanty	Moderate	Moderate	Moderate	Moderate	Scanty	Moderate	Moderate	Moderate	Abundant	Moderate

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SUMMER. 1 week from June 1st, 1919.	Warmth ...	0, 1, 0	1, 0, 0	1, 0, 0	0, 1, 0	1, 0, 0	0, 1, 0	1, 0, 0	1, 0, 0	1, 0, 0	1, 0, 0	1, 0, 0	0, 1, 0
	Rainfall ...	1, 0, 0	0, 1, 0	0, 0, 1	0, 0, 1	0, 0, 1	0, 0, 1	0, 1, 0	0, 0, 1	0, 0, 1	0, 1, 0	0, 0, 1	0, 0, 1
	Sunshine ...	0, 0, 1	0, 0, 1	0, 1, 0	0, 1, 0	0, 1, 0	0, 1, 0	0, 0, 1	0, 1, 0	0, 1, 0	0, 1, 0	1, 0, 0	0, 1, 0

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour

(23706—19.) Wt 162—833/512. 625. 6/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft Mean.	Earth 4 ft Deviation from Average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.†	°F.
0. SCOTLAND, N.																							
a, Islands ..	*a* Lerwick ..	54	61	7th	41	1st	54·0	46·3	49·9	+ 2·0	3	0·43	11	+ 3									
	a Houton Bay, Orkney	520	63	7th	41	3, 4	55·0	45·0	49·7	—	6	0·83	21	+ 13	Houton Bay ..	2·7	- 3·2	15	0	39	*	*	*	*
	a Stornoway	51	60	3, 6	41	2nd	57·7	49·6	53·4	+ 2·8	5	1·10	28	+ 17	Stornoway ..	1·1	- 5·4	6	*	*	*	*	*	*
	a Castlebay, Barra I. ..	37	57	1, 4	46	2nd	55·3	49·7	52·3	—	5	0·71	18	—	Castlebay ..	2·1	—	12	*	*	*	*	*	*
b, Mainland.	*a* Wick	81	65	6th	44	2, 3	57·4	47·3	52·0	+ 2·0	6	0·77	20	+ 12									
	a Strathpeffer	125	66	6th	44	2nd	62·7	50·0	55·9	+ 3·1	3	0·34	9	+ 1									
	p Glencarron	500	58	7th	38	3rd	58·1	46·9	51·2	- 0·2	5	1·98	50	+ 31									
	a Fort Augustus	88	66	5th	40	6, 7	64·6	43·3	53·2	+ 1·0	—	—	—	—									
	p Fort William	171	67	1st	41	3rd	62·9	48·3	55·1	+ 1·5	5	1·05	27	+ 11									
1. SCOTLAND, E.																							
	a Nairn	82	71	7th	44	2nd	63·9	49·1	56·0	+ 3·7	4	0·51	13	+ 5	Nairn	2·4	—	14	*	*	*	*	*	*
	p Gordon Castle ..	101	76	7th	43	2nd	64·1	51·0	57·1	+ 4·4	4	0·34	9	0	Gordon Castle ..	4·4	—	25	*	*	*	*	*	*
	a Aberdeen	48	70	6th	41	2nd	64·1	49·0	56·0	+ 4·2	5	0·31	8	0	Aberdeen ..	5·1	- 1·2	29	0	31	*	*	49·8	+0·8
	a Balmoral	930	68	4, 5	38	2nd	61·6	48 0	54·3	+ 3·7	4	0·43	11	+ 2	Balmoral ..	*	*	*	0	36	*	*	*	*
	r Crieff	472	74	6th	40	2nd	68·0	48·4	57·5	+ 3·6	3	0·37	9	- 2	Crathes	3·8	- 2·2	22	0	34	56·2	+2·2	50·8	+1·0
	a Dundee	244	76	7th	36	2, 3	68 4	45·7	56·3	+ 2·9	4	0·44	11	+ 3	Dundee	4·5	—	26	0	32	56·4	*	*	*
	a Leith	30	75	7th	41	3rd	66·1	49·0	57·0	+ 3·1	4	0·35	9	+ 1	Leith	—	—	—	0	38	*	*	*	*
	p Edinburgh	441	76	7th	41*	3rd	65 7	49·1	56·8	+ 4·6	4	0·29	7	- 1	Edinburgh ..	4·0	- 2 2	24	0	? 32	*	*	*	*
	a West Linton	769	72	7th	29	3rd	64·7	44·3	53·8	+ 3·3	3	0·41	10	—	West Linton ..	4·0	—	24	1	27	*	*	*	*
	p Marchmont	498	78	7th	37	3rd	66·6	48·0	56·7	+ 4·7	2	0·38	10	0	Marchmont .	5·6	- 0·6	33	*	*	*	*	*	*
6. a, SCOTLAND, W																							
	a Ford (Argyll)	149	66	1st	40	2, 3	60·4	47 7	53·6	—	5	0·80	20	—	Ford (Argyll) ..	*	*	*	1	30	57·7	—	50·9	—
	p Glasgow Observatory	180	71	7th	43	3rd	65·7	50·3	57·5	+ 3·1	4	0·50	13	+ 2	Glasgow	3·2	- 2·5	19	0	31	*	*	*	*
	p Rothesay	200	66	1st	44	3rd	62·3	48·7	55·0	+ 0·7	5	0·87	22	+ 9	Rothesay ..	4·0	—	24	0	38	58·3	—	52·4	+1·0
	a Kilmarnock	90	73	7th	37	3rd	67·6	48·9	57·6	+ 4·0	4	0·68	17	+ 7	Kilmarnock ..	4·3	—	25	*	*	59·1	—	51·7	—
	a Colmonell	170	68	1st	40	3rd	62·7	48·6	55·2	+ 2·0	3	0·42	11	0	Colmonell ..	*	*	*	0	35	*	*	*	*
	p Cally, Gatehouse ..	120	70	1, 4, 7	39	3rd	67 6	50·0	58 2	+ 4·6	3	0·15	4	- 9	Dumfries	5·6	—	33	0	32	58·5	+0·8	52·3	-1·5
	p Dumfries	160	73	7th	38	3rd	67·0	49·7	57·8	+ 2·7	3	0·35	9	- 1	Eskdalemuir ..	5·1	—	30	1	28	*	*	*	*
	a Eskdalemuir	794	72	7th	33	3rd	65·1	45·6	54·7	—	2	0·21	5	—										
b, I. OF MAN	*p* Douglas	277	67	1st	46	3rd	62 3	50·6	56·0	+ 2·1	3	0·13	3	- 7	Douglas	6·0	- 1·7	36	0	44	*	*	*	*
2. ENGLAND, N.E																							
	a Alnwick Castle ..	210	81	7th	41	2nd	68·4	47·4	57·2	+ 4·7	3	0·11	3	- 9									
	a Tynemouth	71	82	7th	43	2, 3	66·6	47·4	55·9	+ 3·6	3	0·09	2	- 9	Cockle Park ..	4·6	- 1·2	27	1	30	56·3	+1·2	51·3	+0 2
	p Durham	336	81	7th	39	3rd	68·0	47·3	56·9	+ 3·7	3	0·09	2	- 8	Durham ..	6·6	+ 1·0	39	1	28	*	*	*	*
c, North ..	*p* Rounton	249	83	7th	40	3rd	68·9	46·6	56·0	+ 3·2	3	0·25	6	- 7	Rounton ..	*	*	*	1	30	56·3	*	*	*
	a West Witton	605	81	7th	39	3rd	69·3	48·6	58·2	—	1	0·15	4	—	West Witton ..	*	*	*	0	35	58·5	—	49·6	—
	a Scarborough	100	76	7th	46	2, 3, 4	63 9	50·1	56·5	+ 2·9	2	0·14	4	- 6	Scarborough† ..	6·7	+ 0·9	40	*	*	*	*	45·5	—
	p York	56	83	7th	43	3rd	69·7	49·6	59·0	+ 3·5	2	0·32	8	- 3	York	6·4	+ 0·7	38	—	—	57·6	+2·1	52·4	+0·7
	a Spurn Head	28	76	7th	46	3, 4	61 6	49·3	55·0	+ 1·1	2	0·12	3	- 5	Spurn Head ..	3·8	—	23	*	*	*	*	*	*
b, South ..	*a* Lincoln	58	84	7th	43	4th	69·6	50·0	59·1	+ 2·9	2	0·19	5	- 6	Lincoln	*	*	*	0	41	58·5	+0·8	53·2	+1·1
	a Fulbeck	180	83	7th	40	4th	70·4	48·0	58·4	+ 2·8	3	0·14	4	- 7	Fulbeck*	6·8	+ 0·4	41	*	*	61·4	+1·5	54·7	+1·5
															Skegness ..	7·6	+ 0·8	46	*	*	*	*	*	*
3. ENGLAND, E.																							
	p Cromer	196	83	7th	41	4th	64·7	48·6	56·1	+ 1·5	2	0·04	1	- 11	Cromer	5·7	- 0·6	35	*	*	*	*	*	*
	a Little Massingham ..	280	84	7th	38	4th	66·9	47·3	56·4	+ 0·7	1	0·03	1	- 14	Lit. Massingham	6·5	+ 0·2	40	*	*	*	*	*	*
	a Yarmouth	13	66	6th	39	4th	59·6	47·9	53·5	- 1·6	1	0·20	5	- 7	Yarmouth ..	6·3	—	38	0	37	58·9	-1·6	56·0	+0·2
	a Norwich	93	82	7th	38	4th	66·5	48·3	56 7	+ 0·7	1	0·02	1	- 12	Norwich ..	6·1	—	37	0	32	58·7	*	*	*
	a Geldeston	37	82	7th	35	4th	67 1	46·0	55·8	+ 0·4	1	0·02	1	- 11	Geldeston ..	5·6	- 1·2	34	*	*	*	*	*	*
	p Cambridge	41	84	7th	32	4th	70 4	44·0	56·3	- 0·3	2	0·07	2	- 12	Cambridge ..	7·3	+ 0·8	45	1	27	59·4	+0·2	54·3	-0·5
	a Clacton-on-Sea ..	54	68	6, 7	38	4th	62·9	48·7	55·3	- 0·3	1	0·04	1	- 9	Clacton	6·5	- 0·7	40	0	35	57·4	-0·6	54·9	-0·1
	a Rothamsted	424	78	7th	36	4th	67·9	47·0	56 7	+ 1·2	1	0·06	2	- 13	Rothamsted ..	6·8	+ 0·4	42	2	30	58·0	*	*	*
	p Tottenham	51	80	7th	39	3rd	69·6	51·1	59·7	—	1	0 27	7	—	Tottenham ..	7·4	—	46	0	37	*	*	56·4	+0·8
4. MIDLAND COUNTIES.																							
a, North ..	*a* Harrogate	479	82	7th	40	3rd	67 3	48·6	57·3	+ 3 4	1	0·17	4	- 11	Harrogate ..	6·7	+ 0·4	40	0	36	56·1	+2·6	53·1	+1·8
	p Sheffield	429	81	7th	44	3rd	68·4	51·3	59·3	—	2	0·15	4	—	Sheffield	6·3	+ 0·7	38	0	37	56·6	+1·7	50·1	+0·2
	p Buxton	987	78	7th	37	3rd	65·4	47·4	56·8	—	2	0·14	4	- 16	Buxton	5·1	—	31	0	34	58·5	+3·6	50·4	+1·1
	a Bawtry	65	84	7th	41	1st	69·4	47·1	57·5	+ 1·4	2	0·10	3	- 9	Worksop	6·2	+ 0·7	37	0	31	58·5	—	53·8	—
	a Nottingham	82	82	7th	43	3, 4	69 7	48·9	58·6	+ 2·4	2	0·16	4	- 8	Nottingham ..	6·2	+ 0·3	38	0	37	58·9	+1·0	54·0	+1·2
b, East ..	*p* Birmingham, Edgbsn.	535	78	7th	44	3rd	69·1	52·0	60·0	+ 4·0	2	0·15	4	- 10	Birmingham ..	4·3	- 0·6	26	1	27	56·4	+3·6	49·7	+0 6
	a Raunds	203	84	7th	37	4th	71·3	47·0	58 3	+ 1·8	2	0·07	2	- 10	Raunds	7·6	—	47	1	30	58·1	—	51·0	—
	p Oxford	208	79	1, 7	41	3rd	70·7	49·7	59·5	+ 2·5	2	0·06	2	- 12	Oxford	5·7	- 0·7	35	0	32	*	*	*	*
															Malvern ..	6·1	—	37	0	34	60·8	—	55·7	—
	a Cheadle (N. Staffs.) .	646	80	7th	40	3rd	67·7	48·1	57·2	+ 2·6	1	0·09	2	- 14	Cheadle	*	*	*	0	40	*	*	*	*
c, West ..	*p* Tenbury	313	78	1, 6	37	3rd	73·0	48·6	60·0	+ 4·4	1	0 05	1	- 11	Tenbury	*	*	*	0	33	60·3	—	—	—
	p Ross-on-Wye	201	80	7th	39	3rd	74 0	48·9	60·6	+ 3·8	2	0·13	3	- 10	Ross-on-Wye ..	6·3	—	39	0	34	—	—	—	—
	a Clifton	228	76	7th	45	3rd	70·3	52·1	60·6	+ 2·4	2	0·09	2	- 16	Clifton	7·6	—	47	0	45	*	*	*	*
5. ENGLAND, S.E.																							
	a Marlborough	424	77	1st	36	3rd	70 7	44·1	56·5	+ 1·2	2	0·19	5	- 12	Worthing	6·5	- 0·9	40	0	36	59·9	-0·7	54·9	-0·3
	p Salisbury (Wilton) ..	180	78	1st	40	3rd	72·4	47·0	58 7	+ 1·7	1	0·08	2	- 15	Marlborough ..	5 5	- 0·4	34	1	30	60·2	—	53·5	—
	a Wisley, Surrey ..	150	79	1st	36	4th	71·0	47 1	58·2	+ 1·5	1	0 06	2	- 11	Salisbury	*	*	*	0	36	62·1	*	*	*
	a Tunbridge Wells ..	354	76	6th	36	4th	68·4	47·9	57·6	+ 1·1	1	0·03	1	- 14	Wisley	7·1	+ 0·5	44	2	25	57·8	-1·1	53·1	-1·4
	a Margate	51	78	7th	45	4th	63·9	51·6	57·3	+ 0·5	1	0·01	0·3	- 13	Tunbridge Wells	6·8	+ 0·2	42	2	27	58·3	-2·5	54·0	—
															Margate	6·1	- 0·3	38	0	43	60·2	+2·0	56·7	+2·5
	a Dungeness	21	69	5th	41	4th	62·6	47·1	54·3	- 1·8	1	0·04	1	- 10	Folkestone ..	6·1	—	38	*	*	*	*	50·4	—
	p St. Leonards	178	70	5, 6	43	3rd	63·9	50·7	56·8	+ 0·2	1	0·04	1	- 12	St. Leonards ..	6·7	- 0·6	42	0	38	60·0	—	54·7	—
	p Southampton	64	77	1, 5	44	4th	71 1	50·0	59·8	+ 1·4	1	0·04	1	- 14	Southampton ..	7·1	+ 0·3	44	0	33	*	*	*	*
	a Ventnor	59	74	5th	46	3rd	66·4	52·0	58·7	+ 1·3	1	0·01	0·2	- 14	Ventnor	7·2	+ 0·3	45	*	*	*	*	*	*
LONDON.	*a* Richmond (Kew Obs.)	18	79	7th	41	4th	70·0	50·2	59·4	+ 1·7	1	0·04	1	- 15	Richmond ..	6·4	0·0	40	1	29	57·9	-0·5	53·1	-0·5
	a Westminster	27	80	7th	41	4th	70·6	50·8	60·0	+ 1 7	1	0·05	1	- 13	Westminster ..	6·6	+ 1·0	41	0	36	*	*	*	*
	ag Greenwich	149	83	7th	37	4th	71·6	49·0	59 5	+ 2·4	1	0·06	2	- 9	Greenwich ..	7·1	+ 0·7	44	1	24	*	*	*	*
	a Hampstead	450	79	7th	41	3rd	69·6	49·9	59·1	—	1	0 07	2	—	Hampstead ..	7·1	—	44	1	30	*	*	*	*
	ag Camden Square ..	110	84	7th	42	4th	73·1	50·6	61·1	+ 1·7	1	0·06	2	- 13	Camden Square	6·6	+ 0·9	41	0	39	*	*	*	*
7. a, ENGLAND, N.W																							
	p Aspatria (Mealsgate)	487	75	7th	41	3rd	65·0	49·3	56·6	+ 2·3	3	0·33	9	- 2	Aspatria	6·4	- 0·7	38	0	39	57·4	+0·8	51 4	+0 6
	p Newton Rigg	559	76	7th	36	3rd	69 7	48·1	58·2	+ 4·3	3	0·28	7	- 3	Newton Rigg ..	7·3	+ 0·2	43	1	30	58·8	+2·7	51·7	+1·0
	p Stonyhurst	375	74	7th	42	3rd	66·6	50·7	58·1	+ 3·4	1	0·13	3	- 10	Stonyhurst ..	5·5	- 1·0	33	0	36	*	*	*	*
	p Blackpool	66	81	7th	43	3rd	66·0	50·9	57·9	+ 3·0	2	0·15	4	- 5	Blackpool ..	5·8	- 2·0	35	0	35	55·0	—	50·1	—
	a Southport	37	80	7th	41	3rd	64·9	50·1	57·0	+ 1·7	2	0·17	4	- 5	Southport ..	6·4	- 1·2	39	0	35	60·7	+1·3	56·3	+0·9
															Hoylake ..	7·0	0·0	42	*	*	*	*	*	*
	a Liverpool (Bidston) ..	188	82	7th	48	5th	64·1	51·3	57·3	+ 1·4	2	0·20	5	- 4	Liverpool ..	6·7	—	40	0	41	*	*	*	*
	a Hawarden Bridge ..	22	83	7th	48	3rd	68·0	52·6	59·8	+ 3·3	2	0·41	10	+ 2	Manchester (City)	3·7	- 2·2	22	0	39	59·1	+2·1	55·2	+2·0
	p Manchester (Whit. Pk.)	125	82	7th	44	3rd	68·3	52·0	59·6	+ 2·8	0	0·00	0	- 11	Whitworth Park	4·2	- 1·4	26	*	*	*	*	*	*
b NORTH WALES.																							
	p Llanduduno	16	77	7th	44	3rd	63·3	50·7	56·6	+ 0·7	2	0·24	6	- 3	Llanduduno ..	7·1	- 0·5	43	*	*	*	*	*	*
	a Holyhead	15	67	7th	48	3rd	61·7	50·9	55·9	+ 1·4	2	0·18	5	- 4	Holyhead ..	5·8	—	35	0	42	*	*	*	*
	a Beddgelert	309	72	1, 7	40	3rd	66·7	49·6	57·6	—	3	0·64	14	—	Aberdovey ..	—	—	—	*	*	*	*	*	*
	a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.							Rainfall			STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from average	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average
8. *a.* SOUTH WALES.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
a Aberystwyth	59	75	7th	42	3rd	64·1	51·4	57·3	—	3	0·22	6	—	Aberystwyth ..	7·4	+ 1·0	45	•	•	•	•	•	•
a Rhayader	767	76	7th	35	3rd	68·7	46·3	56·7	—	2	0·12	3	—	Rhayader ..	8·2	—	50	1	24	•	•	•	•
a St. Ann's Head	149	62	1st	46	3rd	59·7	50·6	54·8	- 0·1	2	0·09	2	- 10	St. Ann's Head	5·6	- 1·6	34	•	•	•	•	•	•
p Cardiff	202	75	5th	45	3rd	68·7	51·1	59·3	+ 2·6	2	0·14	4	- 11	Cardiff	7·3	—	45	0	36	60·8	+1·5	53·8	-0·2
b. ENGLAND, S.W.																							
a Bath	68	77	7th	42	3rd	72·1	49·3	59·9	+ 2·8	1	0·03	1	- 12	Bath	•	•	•	•	•	61·5	+2·0	55·9	+0·7
a Shaftesbury ..	722	74	1st	43	3rd	68·6	49·3	58·3	+ 2·7	1	0·02	1	- 12	Shaftesbury ..	•	•	•	•	•	60·0	—	53·7	—
a Arlington ..	613	72	7th	43	2nd	64·9	48·3	56·0	+ 1·0	2	0·18	5	- 14										
a Newquay	190	64	7th	46	7th	59·3	51·4	55·1	- 0·9	1	0·01	0·3	- 11	Newquay ..	4·9	- 2·3	31	0	43	59·8	—	54·2	—
a Cullompton	202	78	1st	45	3rd	71·9	49·9	60·1	+ 3·2	1	0·18	5	- 8	Cullompton ..	8·6	+ 2·1	53	0	39	63·9	•	•	•
a Portland Bill ..	19	64	1st	50	4th	60·7	52·3	56·2	+ 0·1	0	0·00	0	- 8	Weymouth ..	7·4	—	46	•	•	•	•	•	•
p Plymouth	116	71	6th	50	3rd	65·7	52·9	58·9	+ 1·6	1	0·01	0	- 12	Plymouth ..	6·4	- 0·6	40	0	46	62·4	+2·9	54·9	—
a Falmouth	167	68	6th	49	3rd	64·7	52·1	58·0	+ 1·5	0	0·00	0	- 13	Falmouth ..	6·3	- 1·1	39	0	43	62·8	—	57·6	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	65	6th	46	2nd	58·0	50·1	53·8	+ 0·6	4	0·52	13	+ 3	Malin Head ..	3·7	—	22	•	•	•	•	•	•
{ *a* Blacksod Point ..	327	65	1st	47	3rd	59·9	50·4	54·8	+ 0·2	4	1·57	40	+ 26	Markree Castle	5·4	- 0·5	32	0	34	60·7	+3·1	53·1	+0·7
{ *p* Markree Castle ..	122	72	1st	39	3rd	64·9	50·4	57·2	+ 3·3	4	1·15	29	+ 15										
b. East .. { *p* Armagh	196	69	4,6	42	2,3	65·4	50·0	57·2	+ 2·7	2	0·37	9	- 3	Armagh	5·3	- 0·6	32	0	31	59·0	+2·2	53·4	+0·7
{ *a* Donaghadee	101	69	6th	47	3rd	61·4	50·0	55·3	+ 1·5	3	0·28	7	- 5										
10. IRELAND, S.																							
p Dublin, City	47	72	4,6	45	3rd	67·7	53·6	60·2	+ 3·6	1	0·03	1	- 9	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
a Birr Castle	175	73	1st	42	3rd	68·0	49·4	58·1	+ 2·9	3	0·24	6	- 6	Phœnix Park ..	6·3	- 0·4	38	0	32	•	•	•	•
a Kilkenny	212	73	1,6	43	3rd	68·9	51·3	59·5	+ 4·0	3	0·10	3	- 9	Dublin City ..	•	•	•	0	41	•	•	•	•
a Waterford	120	72	1,4	45	3rd	69·0	51·0	59·4	+ 3·2	1	0·01	0·2	- 13	Birr Castle ..	7·1	+ 1·3	43	0	34	•	•	•	•
p Seskin, Carrick-on-Suir	541	75	1st	44	3rd	69·1	51·3	59·6	—	0	0·00	0	—	Seskin	9·1	—	55	0	35	•	•	•	•
a Cahir	199	76	1st	46	3rd	70·0	51·7	60·2	+ 4·6	1	0·03	1	—										
a Foynes	50	73	1st	47	3rd	68·0	53·6	60·3	+ 4·3	3	0·18	4	- 9										
a Cahirciveen (Val. Obs.)	30	69	2nd	48	3rd	63·6	52·9	57·9	+ 2·3	2	0·47	12	- 5	Cahirciveen ..	8·3	+ 1·6	51	0	44	•	•	•	•
a Killarney	174	79	1st	46	3rd	71·4	52·3	61·2	+ 5·3	2	0·10	3	- 12	Ballinacurra ..	9·2	+ 2·5	57	•	•	•	•	•	•
a Roche's Point	32	70	4th	50	3rd	66·3	53·1	59·2	+ 3·5	0	0·01	0·2	- 14										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	63	4th	51	1, 3, 4	61·0	52·0	56·2	+ 0·2	1	0·01	0·2	- 12	Scilly	5·9	- 1·2	37	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	75	7th	50	1, 2	65·9	51·7	58·3	+ 0·7	0	0·00	0	- 14	St. Heliers ..	8·1	+ 0·8	51	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	77	7th	50	4th	65·4	52·7	58·6	+ 1·4	0	0·00	0	- 13	Guernsey† ..	7·7	+ 0·2	48	0	43	61·1	+1·0	56·3	0·0

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, June 7th, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	More than 17 m/s or 39 mi/hr. Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	11 to 17 m/s. 25 to 38 mi/hr. Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
0. SCOTLAND, N.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
Deerness (Cup Anr.)** ..	188	16	5	—	—	—	—	86	67	15	0	259	10	6	8	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	6	92	70	0	157	6	7	14	16	7	17	40
Aberdeen	153	105	52	—	—	—	—	39	67	62	0	304	10	5	7	19	7	17	40
Edinburgh	485	39	31	—	—	7	4	79	74	11	0	203	13	7	15	20	7	13	55
6. SCOTLAND, W.																			
Eskdalemuir	826	50	22	—	—	4,7	7	50	100	11	0	210	13	7	15	20	7	14	20
Paisley	188	81	15	—	—	—	—	17	116	35	0	191	9	7	13	21	7	13	20
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
South Shields	72	61	12	—	—	—	—	31	112	25	0	236	8	7	16	15	7	18	0
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	—	—	67	84	17	0	—	9	3	12	15	3	12	35
Shoeburyness	103	90	‡	—	—	—	—	22	132	14	0	349	7	3	11	13	3	9	55
4. MIDLAND COUNTIES.																			
Benson	270	84	1	—	—	—	—	16	95	57	0	203	8	7	15	13	7	16	35
5. ENGLAND, S.E.																			
Brighton	281	53	6	—	—	—	—	1	92	75	0	—	6	2	8	10	2	8	10
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	64	86	18	0	200	11	7	17	13	7	17	0
Richmond (Kew Obs.)..	82	66	22	—	—	—	—	1	96	71	0	214	6	7	18	9	7	23	5
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	1	55	112	0	236	6	5	14	10	5	12	50
Fleetwood (Cup Anr.) ..	109	44	—	—	—	4, 5	15	64	69	20	0	281	13	5	10	—	—	—	—
Southport	80	62	48	—	—	4, 5, 7	12	84	66	6	0	304	13	4	23	17	4	23	10
Holyhead	60	40	‡	—	—	7	1	76	85	6	0	214	11	7	13	17	7	12	50
8. ENGLAND, S.W.																			
Pendennis Castle§	256	65	24	—	—	—	—	60	73	35	0	203	10	7	11	14	2	14	10
Plymouth	185	88	2	—	—	—	—	17	116	35	0	—	8	4	16	12	4	15	35
Lyme Regis (Rousdon)	600	65	—	—	—	—	—	5	73	90	0	—	7	2	6	11	4	22	5
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	—	—	77	79	12	0	259	10	4	6	—	—	—	—
Quilty	100	40	‡	—	—	—	—	39	113	25	0	—	10	7	17	14	7	17	20
Cahirciveen (Val. Obs.)	98	41	‡	—	—	—	—	43	76	35	14	185	11	6	14	14	6	13	55
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	25	110	33	0	337	8	4	15	12	4	14	5

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory
* Above tops of trees.
** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

TWENTY-THIRD WEEK of 1919—June 1st to June 7th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb
0. SCOTLAND, NORTH ...	67	40	88·2	81·6	84·7	+ 1·0	77	+ 10	0	0	5	+ 2	0·95	24	+ 12	1·9	−3·7	11	1018
Eastern.																			
1. SCOTLAND, EAST ...	78	29	91·3	82·1	86·4	+ 2·1	99	+ 24	0	0	4	+ 1	0·39	10	+ 1	4·2	−1·9	24	1019
2. ENGLAND, N.E.	84	39	92·5	82·1	86·9	+ 1·8	106	+ 24	0	0	3	0	0·16	4	− 7	6·5	+0·4	39	1020
3. ENGLAND, EAST ...	84	32	92·0	81·7	86·5	+ 0·2	100	+ 3	0	0	1	− 2	0·08	2	− 11	6·5	−0·2	40	1020
4. MIDLAND COUNTIES ...	84	37	94·3	82·5	88·0	+ 1·7	119	+ 22	0	0	2	− 1	0·11	3	− 11	6·2	+0·1	38	1020
5. ENGLAND, S.E.	79	36	93·0	82·3	87·3	+ 0·5	110	+ 6	0	0	1	− 2	0·05	1	− 13	6·6	−0·4	41	1020
Western.																			
6. SCOTLAND, WEST ...	73	37	91·1	82·6	86·6	+ 1·3	101	+ 13	0	0	4	+ 1	0·49	12	0	4·6	−2·1	27	1020
7. ENGLAND, N.W.	83	36	91·8	83·4	87·3	+ 1·5	110	+ 19	0	0	2	− 1	0·21	5	− 5	6·6	+0·3	40	1021
8. ENGLAND, S.W.	78	35	92·2	83·1	87·3	+ 0·9	111	+ 12	0	0	1	− 2	0·08	2	− 12	6·8	0·0	42	1022
9. IRELAND, NORTH ...	73	39	90·2	83·1	86·4	+ 1·1	99	+ 14	0	0	3	0	0·69	17	+ 4	5·4	−0·5	32	1021
10. IRELAND, SOUTH ...	79	42	93·1	84·2	88·3	+ 2·1	123	+ 26	0	0	2	− 1	0·12	3	− 11	7·7	+1·3	47	1023
11. ENGLISH CHANNEL ...	77	50	90·8	84·2	87·3	+ 0·5	110	+ 7	0	0	0	− 3	0·00	0	− 13	7·2	−0·1	45	1023

THE SEASON (Summer).—Aggregates, &c., for the Period of 1 Week, June 1st to June 7th, 1919.

0. SCOTLAND, NORTH ..	67	40	88·2	81·6	84·7	+ 1·0	77	+ 10	0	0	5	+ 2	0·95	24	+ 12	1·9	−3·7	11	1018
Eastern.																			
1. SCOTLAND, EAST ...	78	29	91·3	82·1	86·4	+ 2·1	99	+ 24	0	0	4	+ 1	0·39	10	+ 1	4·2	−1·9	24	1019
2. ENGLAND, N.E.	84	39	92·5	82·1	86·9	+ 1·8	106	+ 24	0	0	3	0	0·16	4	− 7	6·5	+0·4	39	1020
3. ENGLAND, EAST ...	84	32	92·0	81·7	86·5	+ 0·2	100	+ 3	0	0	1	− 2	0·08	2	− 11	6·5	−0·2	40	1020
4. MIDLAND COUNTIES ...	84	37	94·3	82·5	88·0	+ 1·7	119	+ 22	0	0	2	− 1	0·11	3	− 11	6·2	+0·1	38	1020
5. ENGLAND, S.E.	79	36	93·0	82·3	87·3	+ 0·5	110	+ 6	0	0	1	− 2	0·05	1	− 13	6·6	−0·4	41	1020
Western.																			
6. SCOTLAND, WEST ...	73	37	91·1	82·6	86·6	+ 1·3	101	+ 13	0	0	4	+ 1	0·49	12	0	4·6	−2·1	27	1020
7. ENGLAND, N.W.	83	36	91·8	83·4	87·3	+ 1·5	110	+ 19	0	0	2	− 1	0·21	5	− 5	6·6	+0·3	40	1021
8. ENGLAND, S.W.	78	35	92·2	83·1	87·3	+ 0·9	111	+ 12	0	0	1	− 2	0·08	2	− 12	6·8	0·0	42	1022
9. IRELAND, NORTH ...	73	39	90·2	83·1	86·4	+ 1·1	99	+ 14	0	0	3	0	0·69	17	+ 4	5·4	−0·5	32	1021
10. IRELAND, SOUTH ...	79	42	93·1	84·2	88·3	+ 2·1	123	+ 26	0	0	2	− 1	0·12	3	− 11	7·7	+1·3	47	1023
11. ENGLISH CHANNEL ...	77	50	90·8	84·2	87·3	+ 0·5	110	+ 7	0	0	0	− 3	0·00	0	− 13	7·2	−0·1	45	1023

THE YEAR 1919.—Aggregates, &c., for the Period of 23 Weeks, December 29th, 1918, to June 7th, 1919.

0. SCOTLAND, NORTH ...	78	11	80·9	74·8	77·8	− 0·6	468	− 41	680	+ 142	97	−10	16·58	422	−120	3·4	+0·1	29	1010
Eastern.																			
1. SCOTLAND, EAST ...	78	5	81·2	74·1	77·6	− 0·8	522	− 67	787	+ 170	85	− 6	11·73	301	− 1	3·4	−0·4	28	1011
2. ENGLAND, N.E.	84	11	82·1	75·5	78·7	− 0·4	618	− 37	578	+ 106	87	+ 4	11·05	281	+ 48	3·6	−0·4	30	1011
3. ENGLAND, EAST ...	84	10	82·7	75·5	79·0	− 0·5	703	− 92	580	+ 86	83	+ 2	10·85	278	+ 49	3·9	−0·4	32	1012
4. MIDLAND COUNTIES ...	84	9	82·8	75·3	79·0	− 0·5	738	− 81	628	+ 106	81	+ 1	13·40	341	+ 79	3·6	−0·2	30	1012
5. ENGLAND, S.E.	79	16	83·3	76·4	79·7	− 0·5	817	− 55	451	+ 72	84	+ 5	13·91	352	+ 89	3·9	−0·5	32	1012
Western.																			
6. SCOTLAND, WEST ...	83	14	82·3	75·7	78·9	− 0·5	629	− 49	539	+ 123	90	− 7	15·30	388	− 81	3·6	−0·2	30	1011
7. ENGLAND, N.W.	83	16	82·4	76·2	79·2	− 0·5	672	− 44	494	+ 112	85	− 1	13·14	335	+ 6	3·8	−0·1	31	1011
8. ENGLAND, S.W.	78	15	83·0	76·6	79·7	− 0·7	757	− 90	409	+ 108	90	+ 4	18·38	469	+ 91	4·1	−0·2	34	1012
9. IRELAND, NORTH ...	76	22	82·8	76·3	79·5	− 0·4	679	− 59	437	+ 97	103	− 1	13·86	348	− 30	3·8	+0·1	32	1010
10. IRELAND, SOUTH ...	80	22	83·6	77·1	80·3	− 0·4	824	− 85	362	+ 102	101	+ 8	15·03	384	− 26	3·9	−0·2	33	1011
11. ENGLISH CHANNEL ...	77	26	83·9	78·9	81·4	− 0·3	941	− 85	137	+ 32	97	+ 5	18·99	506	+188	4·4	−0·6	37	1013
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: June 13th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 24.

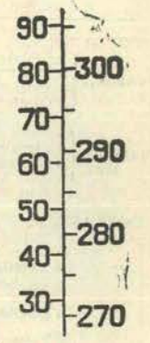
THE TWENTY-FOURTH WEEK OF 1919.

SUNDAY, JUNE 8TH, TO SATURDAY, JUNE 14TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

The chief characteristic of the weather over the British Islands was the passage from west to east between the 11th and 13th of an important depression. Very heavy rainfall was associated with this disturbance in some western and north-western districts, and there was also a considerable increase of wind from west or north-west over the country generally, strong gales being felt along the west coast of England; at Fleetwood on the 13th the wind attained an hourly velocity of 27 m/s. As the result of the disturbed conditions violent changes in temperature were recorded. The highest maxima of the week occurred as a rule on the 11th or 12th, when readings of 300 a. were registered in the east and at some places further west, the actual highest being 302 a. at many stations in the Eastern Districts, but on the 13th in the same region maxima no higher than 288 a. or 289 a. were common; minima on the grass of 271 a. were registered at Rounton and Wisley on the 14th. The mean temperature for the week was below normal over Ireland and the west and north of Scotland, above it over England; in the Midlands and England East the difference was as much as 2·5 a. Rainfall was in excess of the normal in Scotland and Ireland, but there was again a large deficit over England; at some stations on the south coast and in the Channel Islands the week was rainless, the drought being still unbroken. Individual amounts for the 12th were in many cases more than 50mm., Birr Castle and Kilmarnock 56mm., Glasgow and Cally 60mm., and Colmonell 69mm. Thunder and lightning were experienced in most parts of Scotland and North of England on the 11th or 12th, at Rothesay the storm continued for practically 12 hours, the lightning being very vivid. The obverver at Fort William reports "fresh snow on Ben Nevis on the 9th." The sunshine records over England were again very large, the daily mean at Cromer and Yarmouth being nearly 11½ hrs., about 70 per cent. of the possible. Solar halos were observed at several Western Stations and at Oxford on the 8th, and at Oxford, Clacton and London on the 11th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E. Shoeburyness.†		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	17	4·2	16	5·3	21	4·5	16	3·6	20	4·4	14	3·0	16	4·9	18	4·8
North	7	3·5	5	3·5	4	2·3	1	1·1	4	5·0	11	3·6	12	4·6	9	3·6
West	15	5·3	20	5·5	16	5·5	17	3·5	20	4·9	17	6·0	22	5·1	16	4·9
East	9	4·4	3	3·1	10	3·0	1	1·1	2	2·2	10	2·5	4	1·4	9	1·5
Calm	2	—	5	—	2	—	10	—	4	—	0	—	0	—	1	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Moderate	Very unusual	Very unusual	Very unusual	Unusual	Moderate	Unusual	Moderate	Deficient	Deficient	Unusual
	Rainfall ...	Heavy	Moderate	Light	Very light	Moderate	Very light	Very heavy	Moderate	Moderate	Very heavy	Heavy	Very light
	Sunshine ...	Moderate	Abundant	Very abundant	Very abundant	Very abundant	Abundant	Abundant	Abundant	Abundant	Moderate	Moderate	Moderate

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SUMMER. 2 weeks from June 1st, 1919.	Warmth ...	0, 2, 0	1, 1, 0	2, 0, 0	1, 1, 0	2, 0, 0	1, 1, 0	1, 1, 0	2, 0, 0	1, 1, 0	1, 0, 1	1, 0, 1	1, 1, 0
	Rainfall ...	2, 0, 0	0, 2, 0	0, 0, 2	0, 0, 2	0, 1, 1	0, 0, 2	1, 1, 0	0, 1, 1	0, 1, 1	1, 1, 0	1, 0, 1	0, 0, 2
	Sunshine ...	0, 1, 1	1, 0, 1	1, 1, 0	1, 1, 0	1, 1, 0	1, 1, 0	1, 0, 1	1, 1, 0	1, 1, 0	0, 2, 0	1, 1, 0	0, 2, 0

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{5}{9}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour

(23845—19.) Wt 162—833/512. 625. 6/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

['TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft Mean.	Earth 4 ft Deviation from Average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																							
a, Islands: a Lerwick	54	58	14th	45	13th	54·4	48·7	51·4	+ 2·8	5	0·55	14	+ 4										
a Houton Bay, Orkney	520	60	8th	42	11th	55·0	44·6	49·4	—	5	0·79	20	+ 9	Houton Bay	6·5	+ 0·7	36	0	40	•	•	•	•
a Stornoway	31	59	10th	45	14th	56·6	46·7	51·3	- 0·2	6	1·26	32	+ 18	Stornoway	5·9	- 0·6	33	•	•	•	•	•	•
a Castlebay, Barra I.	37	57	11th	47	10th	54·6	48·7	51·4	—	6	1·24	31	—	Castlebay	4·3	—	25						
b, Mainland: a Wick	81	63	10th	42	14th	56·0	45·6	50·4	- 0·4	6	0·57	14	+ 3										
a Strathpeffer	125	65	8, 9	42	9th	61·6	46·6	53·6	- 0·2	4	0·84	21	+ 10										
p Glencarron	500	60	12th	44	9th	55·9	46·0	50·6	- 1·7	6	1·87	47	+ 23										
a Fort Augustus	68	60	14th	43	14th	57·1	45·3	50·8	- 2·4	?	?	?	?										
p Fort William	171	65	12th	45	9, 14	61·0	47·7	53·9	- 0·7	6	1·55	39	+ 19										
1. SCOTLAND, E.																							
a Nairn	82	66	10th	42	14th	60·7	46·3	53·0	- 0·1	4	0·25	6	- 5	Nairn	6·9	—	39	•	•	•	•	•	•
p Gordon Castle	101	73	14th	44	14th	63·9	47·4	55·1	+ 1·7	3	0·13	3	- 9	Gordon Castle	7·2	—	41	•	•	•	•	•	•
a Aberdeen	46	70	11th	42	14th	64·1	47·7	55·3	+ 2·8	4	0·09	2	- 8	Aberdeen	8·4	+ 2·0	48	0	33	•	•	51·1	+1·1
a Balmoral	930	71	12th	34	14th	64·6	42·1	52·6	+ 1·1	2	0·24	6	- 6	Balmoral	•	•	•	1	30	•	•	•	•
p Crieff	432	71	12th	40	10, 14	63·7	45·6	54·0	- 0·8	5	0·58	15	- 1	Crathes	8·1	+ 1·9	47	0	31	57·2	+2·1	52·0	+1·1
a Dundee	244	69	12th	40	10th	65·3	45·7	54·8	+ 0·5	4	0·47	12	+ 1	Dundee	8·7	—	50	0	33	57·0	•	•	•
a Leith	30	69	11th	45	14th	64·9	49·4	56·6	+ 1·9	5	1·07	27	+ 17	Leith	—	—	—	0	42	•	•	•	•
p Edinburgh	441	68	11th	45	14th	63·4	48·3	55·3	+ 2·3	5	0·97	25	+ 13	Edinburgh	7·5	+ 1·1	44	0	41	•	•	•	•
a West Linton	700	66	11th	41	13th	61·0	45·6	52·8	+ 1·5	4	1·36	35	—	West Linton	7·5	—	44	0	35	•	•	•	•
p Marchmont	498	72	12th	41	10, 14	65·7	46·6	55·5	+ 2·7	4	0·58	15	+ 1	Marchmont	9·4	+ 2·9	55	•	•	•	•	•	•
6. a, SCOTLAND, W.																							
a Ford (Argyll)	149	66	11, 12	45	10, 11, 14	61·0	47·3	53·7	—	6	1·89	48	—	Ford (Argyll)	•	•	•	0	32	55·8	—	51·6	—
p Glasgow Observatory	180	67	11th	46	9, 14	62·7	49·3	55·5	+ 0·6	5	3·06	78	+ 63	Glasgow	8·5	+ 2·7	50	0	39	•	•	•	•
p Rothesay	200	64	11th	44	14th	59·6	47·1	52·9	- 1·9	6	1·64	42	+ 24	Rothesay	5·6	—	33	0	38	56·1	—	53·0	+0·8
a Kilmarnock	90	69	11th	42	14th	62·7	49·4	55·6	+ 1·5	4	2·85	72	+ 58	Kilmarnock	7·5	—	44	•	•	57·6	—	52·5	—
a Colmonell	170	68	11th	42	14th	61·9	48·7	54·8	+ 1·3	4	3·17	81	+ 66	Colmonell	•	•	•	0	38	•	•	•	•
p Cally, Gatehouse	120	65	11, 12	39	14th	61·9	45·4	53·1	- 1·0	5	2·75	70	+ 53	Dumfries	8·2	—	48	0	33	57·1	-2·0	53·1	-2·0
p Dumfries	160	76	12th	41	14th	63·1	47·0	54·5	- 1·3	5	0·44	11	- 3	Eskdalemuir	8·0	—	47	1	30	•	•	•	•
a Eskdalemuir	794	74	12th	38	13th	61·4	43·4	51·8	—	6	0·71	18	—										
b, LOFMAN p Douglas	277	66	11th	45	9, 14	59·4	47·6	53·1	- 1·2	5	1·08	27	+ 13	Douglas	8·7	+ 0·9	51	0	39	•	•	•	•
2. ENGLAND, N.E.																							
a North: a Alnwick Castle	210	78	11th	43	14th	67·3	48·4	57·2	+ 4·0	5	0·24	6	- 5										
a Tynemouth	71	78	11th	43	13th	66·1	47·6	56·2	+ 3·2	2	0·12	3	- 7	Cockle Park	8·5	+ 2·4	50	0	39	59·6	+3·6	53·3	+1·1
p Durham	336	77	11, 12	42	14th	67·4	47·7	56·9	+ 3·0	2	0·09	2	- 8	Durham	10·2	+ 4·3	60	0	33	•	•	•	•
a Rounton	249	84	12th	40	14th	70·6	48·7	58·9	+ 5·4	3	0·13	3	- 9	Rounton	•	•	•	1	28	59·4	•	•	•
a West Witton	605	78	11th	45	14th	69·7	50·1	59·2	—	3	0·11	3	—	West Witton	•	•	•	0	40	60·6	—	50·9	—
p Scarborough	100	80	8th	48	14th	69·4	52·7	60·5	+ 6·2	0	0·00	0	- 10	Scarborough†	10·8	+ 4·8	64	•	•	•	•	46·4	—
p York	56	82	11, 12	45	14th	72·0	51·4	61·0	+ 4·8	1	0·13	3	- 8	York	9·1	+ 3·1	54	—	—	59·9	+3·3	53·6	+1·0
b, South: a Spurn Head	26	76	11th	50	10, 13	67·7	52·3	59·5	+ 4·9	2	0·16	4	- 4	Spurn Head	5·5	—	33	•	•	•	•	•	•
a Lincoln	58	82	11th	46	14th	73·1	52·0	61·8	+ 4·9	1	0·06	2	- 9	Lincoln	•	•	•	0	43	61·9	+3·1	54·4	+1·1
a Fulbeck	180	81	11th	42	14th	72·1	51·1	60·9	+ 4·6	2	0·11	3	- 7	Fulbeck*	10·3	+ 3·6	62	•	•	64·6	+3·8	55·6	+1·4
														Skegness	10·7	+ 3·5	64	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	83	12th	49	11th	71·9	52·3	61·4	+ 7·1	1	0·08	2	- 9	Cromer	11·4	+ 5·1	69	•	•	•	•	•	•
a Little Massingham	280	84	11, 12	45	14th	74·3	49·9	61·3	+ 5·8	1	0·15	4	- 10	Lit. Massingham	10·7	+ 4·4	64	•	•	•	•	•	•
a Yarmouth	13	78	12th	50	10, 11, 14	66·9	51·9	58·9	+ 4·1	1	0·08	2	- 9	Yarmouth	10·7	—	65	0	47	61·3	-0·3	56·9	0·0
a Norwich	93	81	11, 12	47	14th	72·7	52·1	61·7	+ 6·0	1	0·14	4	- 8	Norwich	9·5	—	58	0	41	61·7	•	•	•
a Geldeston	37	80	11, 12	45	10th	73·0	50·6	61·0	+ 5·8	1	0·08	2	- 9	Geldeston	10·0	+ 3·2	61	•	•	•	•	•	•
p Cambridge	41	82	11th	41	10th	74·7	48·4	60·6	+ 4·2	1	0·06	1	- 12	Cambridge	10·7	+ 4·1	65	0	34	62·4	+2·3	55·5	-0·3
a Clacton-on-Sea	54	70	12th	48	14th	65·4	54·1	59·4	+ 4·0	1	0·02	1	- 9	Clacton	10·9	+ 3·7	66	0	41	61·3	+2·6	56·1	+0·2
a Rothamsted	424	79	11th	44	14th	70·6	49·9	59·5	+ 4·2	1	0·07	2	- 11	Rothamsted	9·9	+ 3·4	60	0	37	61·3	•	•	•
p Tottenham	51	81	11th	44	13, 14	72·6	50·9	61·0	—	0	0·00	0	—	Tottenham	9·9	—	61	0	44	•	•	58·0	+1·2
														S'thend-on-Sea	10·8	—	66	0	48	—	—	—	—
4. MIDLAND COUNTIES.																							
a North: a Harrogate	479	79	11th	43	14th	69·1	49·3	58·5	+ 4·6	3	0·24	6	- 5	Harrogate	9·9	+ 3·2	59	0	38	58·0	+3·4	54·7	+2·3
p Sheffield	429	80	11th	46	14th	69·9	50·7	59·6	—	2	0·11	3	—	Sheffield	10·5	+ 4·6	63	0	38	61·0	+5·1	51·8	+0·9
p Buxton	987	76	11th	45	14th	65·9	49·4	57·1	—	3	0·79	20	+ 5	Buxton	9·5	—	57	0	39	62·2	+6·2	52·1	+2·0
b, East: a Bawtry	65	82	11th	41	14th	73·6	50·3	61·1	+ 5·0	1	0·04	1	- 8	Worksop	9·2	+ 3·5	55	0	31	60·3	—	55·1	—
a Nottingham	82	83	11th	45	14th	71·6	51·9	61·1	+ 5·0	3	0·24	6	- 3	Nottingham	10·4	+ 4·3	63	0	40	61·9	+3·1	55·8	+1·8
p Birmingham, Edgbsn.	535	81	11th	46	14th	70·3	49·9	59·4	+ 3·5	3	0·34	9	- 2	Birmingham	9·6	+ 4·4	59	0	39	58·4	+4·8	50·7	+0·8
a Raunds	203	83	11th	44	14th	74·7	50·9	62·0	+ 5·6	1	0·11	3	- 6	Raunds	11·0	—	67	0	36	61·0	—	52·3	—
p Oxford	208	80	11th	45	14th	72·1	51·3	61·0	+ 4·1	1	0·27	7	- 4	Oxford	10·2	+ 3·5	63	0	37	•	•	•	•
														Malvern	10·0	—	61	0	40	62·2	—	57·3	—
c, West: a Cheadle (N. Staffs.)	646	80	11th	45	10, 14	69·4	49·6	58·8	+ 4·3	2	0·70	18	+ 6	Cheadle	•	•	•	0	42	•	•	•	•
p Tenbury	313	80	11th	35	14th	70·4	48·1	58·5	+ 3·0	2	0·17	4	- 6	Tenbury	•	•	•	0	32	61·2	—	—	—
p Ross-on-Wye	201	84	11th	39	14th	72·1	49·3	59·9	+ 3·3	1	0·39	10	0	Ross-on-Wye	10·3	—	63	0	35	—	—	—	—
a Clifton	228	81	11th	47	14th	69·4	53·6	61·0	+ 3·0	3	0·40	10	- 4	Clifton	9·6	—	59	0	45	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	79	11th	38	14th	70·1	49·0	58·8	+ 3·7	2	0·46	12	- 1	Worthing	9·9	+ 2·3	61	0	40	61·3	-0·1	55·7	-0·5
p Salisbury (Wilton)	180	79	11th	39	14th	71·0	48·9	59·2	+ 2·4	0	0·00	0	- 12	Marlborough	9·7	+ 3·6	60	0	32	61·3	—	54·6	—
a Wisley, Surrey	150	80	11th	40	14th	73·0	50·4	60·9	+ 4·4	1	0·02	1	- 9	Salisbury	•	•	•	0	34	64·0	•	•	•
a Tunbridge Wells	354	76	11th	42	14th	69·9	51·0	59·8	+ 3·5	0	0·00	0	- 11	Wisley	9·8	+ 3·0	60	1	28	60·6	+0·8	54·3	-1·3
a Margate	51	75	11, 12	52	9th	69·3	54·4	61·3	+ 4·7	1	0·03	1	- 9	Tunbridge Wells	9·1	+ 2·3	56	0	31	60·3	-0·8	55·1	—
														Margate	9·3	+ 2·8	57	0	49	64·6	+5·8	58·3	+2·9
a Dungeness	21	73	11th	45	14th	65·1	51·1	57·6	+ 1·7	0	0·00	0	- 9	Folkestone	8·2	—	50	•	•	•	•	51·5	—
p St. Leonards	178	73	11th	50	10, 14	65·4	52·7	58·6	+ 2·2	0	0·00	0	- 10	St. Leonards	9·0	+ 1·5	56	0	44	61·5	—	55·7	—
p Southampton	64	74	11th	45	14th	68·9	51·9	59·8	+ 1·6	0	0·00	0	- 11	Southampton	10·3	+ 3·3	63	0	37	•	•	•	•
a Ventnor	59	69	11th	49	14th	64·3	53·0	58·3	+ 1·2	0	0·00	0	- 10	Ventnor	9·0	+ 1·9	56	•	•	•	•	•	•
LONDON, a Richmond (Kew Obs.)	18	82	11th	45	14th	73·7	53·5	62·9	+ 5·3	1	0·03	1	- 11	Richmond	9·6	+ 3·1	59	0	33	61·0	+1·8	53·8	-0·8
a Westminster	27	82	11th	47	14th	73·1	54·3	63·1	+ 5·0	1	0·03	1	- 9	Westminster	9·5	+ 3·7	58	0	40	•	•	•	•
ag Greenwich	149	84	11th	45	14th	75·4	51·9	62·8	+ 4·1	1	0·03	1	- 11	Greenwich	10·9	+ 4·4	67	0	33	•	•	•	•
a Hampstead	450	79	11th	46	14th	71·3	51·7	60·8	—	1	0·05	1	—	Hampstead	9·0	—	55	0	37	•	•	•	•
ag Camden Square	110	85	11th	46	14th	76·6	53·0	64·0	+ 4·7	1	0·04	1	- 10	Camden Square	9·0	+ 3·1	55	0	44	•	•	•	•
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	77	12th	41	14th	63·3	47·6	54·9	0·0	3	0·48	12	- 1	Aspatria	8·8	+ 1·3	52	0	38	57·2	-0·3	52·2	+0·4
p Newton Rigg	559	77	12th	38	14th	66·3	46·7	55·8	+ 1·3	4	0·56	14	+ 3	Newton Rigg	10·4	+ 2·9	62	0	32	59·3	+2·0	53·0	+1·2
p Stonyhurst	375	77	11th	42	14th	68·0	51·6	59·2	+ 4·0	3	0·21	5	- 11	Stonyhurst	9·4	+ 2·6	56	0	37	•	•	•	•
p Blackpool	66	77	11th	50	14th	68·1	53·4	60·2	+ 4·8	3	0·17	4	- 7	Blackpool	10·5	+ 2·4	63	0	42	56·7	—	51·0	—
a Southport	37	77	11th	50	13, 14	66·6	53·6	59·7	+ 3·9	2	0·33	8	- 3	Southport	10·5	+ 2·6	63	0	44	63·9	+2·4	58·2	+1·7
														Hoylake	—	—	—	•	•	•	•	•	•
a Liverpool (Bidston)	188	79	11th	49	13th	65·9	52·3	58·6	+ 2·2	3	0·40	10	- 1	Liverpool	8·9	—	53	0	43	•	•	•	•
a Hawarden Bridge	22	82	11th	47	14th	68·3	53·4	60·3	+ 3·3	2	0·29	7	- 3	Manchester (City)	8·9	+ 2·6	53	0	43	61·0	+3·0	56·6	+2·2
p Mancnester (Whit. Pk.)	125	81	11th	44	14th	70·1	50·9	59·8	+ 2·5	3	0·26	7	- 7	Whitworth Park	9·0	+ 3·1	54	•	•	•	•	•	•
b, NORTH WALES.																							
p Llandudno	16	77	11th	44	14th	64·3	51·4	57·4	+ 1·0	3	0·46	12	+ 1	Llandudno	8·2	+ 0·3	49	•	•	•	•	•	•
a Holyhead	15	69	11th	44	14th	61·4	49·3	54·9	0·0	2	0·91	23	+ 12	Holyhead	6·9	—	42	0	35	•	•	•	•
a Beddgelert	300	73	11, 12	42	14th	64·7	48·7	56·7	—	4	2·15	55	—	Aberdovey	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

• Earth Temperatures refer to Rauceby

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest:	Date.	Lowest:	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
3. *a.* SOUTH WALES.																							
a Aberystwyth	59	73	11th	43	14th	62·6	52·4	57·1	—	3	1·44	37	—	Aberystwyth ..	8·3	+ 1·5	51	•	•	•	•	•	•
a Rhayader	767	79	11th	35	14th	65·7	47·3	55·9	—	3	1·38	35	—	Rhayader ..	9·3	—	57	1	28	•	•	•	•
a St. Ann's Head ..	149	63	11th	49	14th	58·7	51·3	54·7	- 0·1	4	0·98	25	+ 14	St. Ann's Head	8·8	+ 1·1	54	•	•	•	•	•	•
p Cardiff	202	78	11th	44	13, 14	67·6	49·6	58·0	+ 1·3	3	0·69	18	+ 3	Cardiff	10·1	—	62	0	38	61·9	+1·8	55·2	+0·1
b, ENGLAND, S.W.																							
a Bath	66	81	11th	43	14th	71·0	52·7	61·2	+ 4·1	2	0·29	7	- 6	Bath	•	•	•	—	—	63·3	+3·1	57·1	—
a Shaftesbury	722	74	11th	44	14th	66·6	50·4	57·9	+ 2·3	0	0·00	0	- 13	Shaftesbury ..	•	•	•	•	—	61·1	—	55·3	—
a Arlington	613	76	11th	40	14th	64·9	49·4	56·6	+ 1·6	4	0·90	23	+ 14										
a Newquay	190	74	11th	39	14th	63·7	50·1	56·4	+ 0·5	3	0·12	3	- 9	Newquay ..	9·6	+ 2·0	60	0	35	60·5	—	55·1	—
a Cullompton	202	77	11th	38	14th	70·3	49·3	59·1	+ 2·2	2	0·18	5	- 7	Cullompton ..	9·2	+ 2·4	57	0	33	64·3	•	•	•
a Portland Bill	19	63	10, 11	48	14th	62·0	52·3	56·8	+ 0·8	0	0·00	0	- 8	Weymouth ..	11·3	—	70	•	•	•	•	•	•
p Plymouth	116	75	11th	46	14th	66·6	53·1	59·4	+ 2·1	3	0·05	1	- 11	Plymouth ..	10·2	+ 2·7	63	0	40	63·3	+3·1	56·4	—
a Falmouth	167	67	11th	48	14th	63·7	52·4	57·7	+ 1·3	3	0·07	2	- 11	Falmouth ..	10·0	+ 2·1	62	0	41	62·6	—	58·8	—
9. IRELAND, N.																							
a West .. *a* Malin Head	208	61	11, 14	45	14th	57·1	48·1	52·3	- 1·2	6	0·98	25	+ 13	Malin Head ..	5·4	—	32	•	•	•	•	•	•
a Blacksod Point ..	327	60	8th	46	9, 13, 14	57·1	48·0	52·2	- 2·8	6	0·95	24	+ 9	Markree Castle	4·6	- 1·3	27	2	29	58·1	-0·5	53·9	+0·7
p Markree Castle ..	122	62	11, 14	36	14th	60·4	44·6	52·0	- 2·3	6	1·35	34	+ 18										
b, East .. *p* Armagh	196	69	11th	42	9, 14	63·6	45·9	54·1	- 0·9	5	0·89	23	+ 9	Armagh	5·8	- 0·2	34	0	35	57·4	-0·3	54·0	+0·4
a Donaghadee	101	67	11th	42	14th	61·0	46·9	53·5	- 0·7	4	2·05	52	+ 39										
10. IRELAND, S.																							
p Dublin, City	47	73	11th	45	14th	65·4	49·3	56·8	- 0·3	4	2·16	55	+ 46	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
a Birr Castle	175	66	11th	40	9th	61·7	46·6	53·6	- 2·1	4	2·68	68	+ 57	Phœnix Park ..	7·6	+ 1·0	46	0	31	•	•	•	•
a Kilkenny	212	67	11th	39	9th	62·9	46·0	53·9	-[illegible]2·0	4	2·12	54	+ 43	Dublin City ..	•	•	•	0	41	•	•	•	•
a Waterford	120	65	11th	42	9th	59·4	46·9	52·7	-[illegible]4·0	4	0·91	23	+ 11	Birr Castle ..	5·4	- 0·3	33	0	34	•	•	•	•
p Seskin, Carrick-on-Suir	541	63	10, 11	43	9th	60·9	46·6	53·3	—	4	2·38	60	—	Seskin	5·6	—	34	1	30	•	•	•	•
a Cahir	199	67	11th	38	9th	62·6	45·4	53·4	- 2·6	3	1·77	45	—										
a Foynes	50	67	11th	43	9th	62·7	48·0	54·8	- 1·5	5	0·71	18	+ 6										
a Cahirciveen (Val. Obs.)	30	62	11th	41	14th	59·6	48·6	53·7	- 2·2	3	0·67	17	+ 2	Cahirciveen ..	4·1	- 2·5	25	0	38	•	•	•	•
a Killarney	174	68	11th	40	14th	63·1	48·4	55·2	- 1·1	4	0·39	10	- 3	Ballinacurra ..	5·5	- 1·1	34	•	•	•	•	•	•
a Roche's Point	32	61	9, 11, 14	47	9, 14	60·0	49·7	54·5	- 1·6	4	0·41	10	- 2										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	66	11th	50	13, 14	62·4	52·0	56·8	+ 0·5	2	0·05	1	- 7	Scilly	7·9	- 0·2	49	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	80	11th	51	14th	67·0	54·3	60·2	+ 2·3	0	0·00	0	- 10	St. Heliers ..	7·7	- 0·5	48	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	77	11th	51	14th	66·7	54 9	60·4	+ 2·9	0	0·00	0	- 8	Guernsey† ..	8·9	+ 0·5	56	0	41	62·4	+1·7	57·6	+0·4

†The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, June 14th, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m./s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	9, 10, 13	16	75	69	8	0	293	13	13	17	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	14	99	55	0	315	7	13	15	20	13	17	35
Aberdeen	153	105	52	—	—	13	3	39	73	53	0	304	12	13	17	20	13	15	50
Edinburgh	485	39	31	—	—	8, 11	10	96	36	26	0	191	14	8	16	23	8	15	40
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	8, 9, 11, 13	23	67	52	26	0	220	15	8	14	22	8	14	50
Paisley	188	81	15	—	—	8, 13	5	36	105	22	0	191	13	8	18	23	8	17	20
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	7	86	75	0	†	7	8	15	13	9	12	50
South Shields	72	61	12	—	—	—	—	55	81	32	0	135	10	12	13	16	8	18	15
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	Instrument out of action.			—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	12	6	60	87	15	0	—	12	12	24	17	12	23	55
Shoeburyness	103	90	‡	—	—	9, 12, 13	19	60	86	3	0	225	17	12	22	22	12	17	50
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	12	12	44	93	19	0	225	13	12	15	21	12	12	55
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	12, 13	11	38	100	19	0	—	13	13	3	22	13	2	55
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	12, 13	27	46	75	8	12	245	16	12	24	22	12	14	30
Richmond (Kew Obs.)..	82	65	22	—	—	12	1	29	63	75	0	214	11	12	13	19	12	11	45
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fleetwood (Cup Anr.) ..	109	44	—	13	9	8, 13	12	63	76	8	0	304	27	13	10	—	—	—	—
Southport	80	62	48	13	8	8, 9, 12, 13	25	71	46	8	10	304	22	13	7	28	13	7	5
Holyhead	60	40	‡	—	—	8, 12, 13,	19	75	59	15	0	231	17	12	22	23	12	21	45
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	12	6	8, 12	25	38	84	15	0	247	19	12	9	28	12	9	5
Plymouth	185	88	2	—	—	12	4	61	67	36	0	—	12	12	10	21	12	13	0
Lyme Regis (Rousdon)	600	65	30*	—	—	—	—	30	74	64	0	—	9	12	19	17	12	18	55
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	12, 13	7	8, 10, 12, 13	19	66	68	8	0	326	18	12	23	—	—	—	—
Quilty	100	40	‡	—	—	12, 13	27	49	53	13	26	—	16	12	8	21	12	8	20
Cahirciveen (Val. Obs.)	98	41	‡	—	—	8, 12	8	118	37	5	0	210	13	8	13	19	8	12	55
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11. ENGLISH CHANNEL																			
Scilly	150	32	†	12	3	12, 13	15	36	52	62	0	315	19	12	7	26	12	6	50

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.

* Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

TWENTY-FOURTH WEEK of 1919—June 8th to June 14th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	65	42	87·2	81·2	83·9	− 0·2	68	− 4	0	− 1	6	+ 2	1·11	28	+ 12	6·2	+0·5	35	1016
Eastern.																			
1. SCOTLAND, EAST ...	73	34	90·6	80·9	85·4	+ 0·6	87	+ 7	0	0	4	+ 1	0·54	14	+ 1	8·2	+1·9	47	1017
2. ENGLAND, N.E.	84	40	93·8	83·1	88·1	+ 2·7	120	+ 34	0	0	2	− 1	0·12	3	− 7	9·9	+3·5	59	1020
3. ENGLAND, EAST ...	84	41	94·8	83·6	88·8	+ 2·6	130	+ 34	0	0	1	− 2	0·08	2	− 10	10·5	+3·8	64	1023
4. MIDLAND COUNTIES ...	84	35	~~89·3~~	83·2	88·6	+ 2·4	127	+ 30	0	0	2	− 1	0·29	7	− 3	10·0	+3·6	61	1022
5. ENGLAND, S.E.	82	38	93·6	83·9	88·4	+ 1·7	124	+ 21	0	0	1	− 2	0·05	1	− 9	9·4	+2·3	58	1024
Western.																			
6. SCOTLAND, WEST ...	76	39	89·4	81·7	85·3	− 0·3	85	− 4	0	0	5	+ 2	2·11	54	+ 37	8·6	+1·8	51	1018
7. ENGLAND, N.W.	82	38	91·9	83·4	87·4	+ 1·3	111	+ 17	0	0	3	0	0·42	11	− 1	9·5	+2·4	57	1020
8. ENGLAND, S.W.	81	35	91·7	83·4	87·3	+ 0·9	110	+ 11	0	0	2	− 1	0·45	11	− 3	9·3	+2·1	57	1024
9. IRELAND, NORTH ...	69	36	88·7	81·2	84·7	− 0·9	77	− 12	0	0	5	+ 1	1·48	38	+ 23	5·2	−0·7	31	1018
10. IRELAND, SOUTH ...	73	38	89·6	81·7	85·4	− 1·0	86	− 14	0	0	4	+ 1	1·31	33	+ 21	5·7	−0·6	34	1022
11. ENGLISH CHANNEL ...	80	50	91·6	85·1	88·1	+ 1·2	120	+ 14	0	0	1	− 2	0·01	0	− 8	8·2	−0·1	51	1025

THE SEASON (Summer).—Aggregates, &c., for the Period of 2 Weeks, June 1st to June 14th, 1919.

0. SCOTLAND, NORTH ...	67	40	87·6	81·4	84·3	+ 0·4	145	+ 6	0	− 1	11	+ 4	2·06	52	+ 24	4·1	−1·5	23	1017
Eastern.																			
1. SCOTLAND, EAST ...	78	29	91·0	81·5	85·9	+ 1·3	186	+ 31	0	0	8	+ 2	0·93	24	+ 2	6·2	0·0	36	1018
2. ENGLAND, N.E.	84	39	93·2	82·6	87·5	+ 2·2	226	+ 58	0	0	5	− 1	0·28	7	− 14	8·2	+1·9	49	1020
3. ENGLAND, EAST ...	84	32	93·5	82·7	87·7	+ 1·4	230	+ 37	0	0	2	− 4	0·16	4	− 21	8·5	+1·8	52	1022
4. MIDLAND COUNTIES ...	84	35	91·8	82·9	88·3	+ 2·0	246	+ 52	0	0	4	− 2	0·40	10	− 14	8·1	+1·9	49	1021
5. ENGLAND, S.E.	82	36	93·3	83·1	87·9	+ 1·1	234	+ 27	0	0	2	− 4	0·10	2	− 22	8·0	+1·0	49	1022
Western.																			
6. SCOTLAND, WEST ...	76	37	90·3	82·2	85·9	+ 0·4	186	+ 9	0	0	9	+ 3	2·60	66	+ 37	6·6	−0·1	39	1019
7. ENGLAND, N.W.	83	36	91·9	83·4	87·4	+ 1·4	221	+ 36	0	0	5	− 1	0·63	16	− 6	8·0	+1·0	48	1021
8. ENGLAND, S.W.	81	35	92·0	83·3	87·3	+ 0·9	221	+ 23	0	0	3	− 3	0·53	13	− 15	8·1	+1·1	50	1023
9. IRELAND, NORTH ...	73	36	89·5	82·2	85·6	+ 0·1	176	+ 2	0	0	8	+ 1	2·17	55	+ 27	5·3	−0·6	31	1020
10. IRELAND, SOUTH ...	79	38	91·4	83·0	86·9	+ 0·6	209	+ 12	0	0	6	0	1·43	36	+ 10	6·7	+0·4	41	1023
11. ENGLISH CHANNEL ...	80	50	91·2	84·7	87·7	+ 0·8	230	+ 21	0	0	1	− 5	0·01	0	− 21	7·7	−0·1	48	1024

THE YEAR 1919.—Aggregates, &c., for the Period of 24 Weeks, December 29th, 1918, to June 14th, 1919.

0. SCOTLAND, NORTH ...	78	11	81·2	75·1	78·1	− 0·6	536	− 45	680	+ 141	103	− 8	17·69	450	−108	3·5	+0·1	29	1010
Eastern.																			
1. SCOTLAND, EAST ...	78	5	81·6	74·4	77·9	− 0·8	609	− 60	787	+ 170	89	− 5	12·27	315	0	3·6	−0·3	30	1011
2. ENGLAND, N.E.	84	11	82·6	75·8	79·1	− 0·3	738	− 3	578	+ 106	89	+ 3	11·17	284	+ 41	3·9	−0·2	32	1012
3. ENGLAND, EAST ...	84	10	83·2	75·9	79·4	− 0·4	833	− 58	580	+ 86	84	0	10·93	280	+ 39	4·1	−0·3	34	1013
4. MIDLAND COUNTIES ...	84	9	83·1	75·7	79·4	− 0·4	865	− 51	628	+ 106	83	0	13·69	348	+ 76	3·8	−0·1	31	1012
5. ENGLAND, S.E.	82	16	83·7	76·7	80·1	− 0·4	941	− 34	451	+ 72	85	+ 3	13·96	353	+ 80	4·1	−0·4	34	1013
Western.																			
6. SCOTLAND, WEST ...	83	14	82·6	75·9	79·2	− 0·5	714	− 53	539	+ 123	95	− 5	17·41	442	− 44	3·8	−0·1	31	1012
7. ENGLAND, N.W.	83	16	82·8	76·5	79·5	− 0·5	783	− 27	494	+ 112	88	− 1	13·56	346	+ 5	4·0	−0·1	33	1012
8. ENGLAND, S.W.	81	15	83·4	76·9	80·0	− 0·6	867	− 79	409	+ 108	92	+ 3	18·83	480	+ 88	4·3	−0·1	36	1012
9. IRELAND, NORTH ...	76	22	83·0	76·5	79·7	− 0·5	756	− 71	437	+ 97	108	0	15·34	386	− 7	3·9	+0·1	32	1010
10. IRELAND, SOUTH ...	80	22	83·8	77·3	80·5	− 0·5	910	− 99	362	+ 102	105	+ 9	16·34	417	− 5	4·0	−0·2	33	1012
11. ENGLISH CHANNEL ...	80	26	84·2	79·2	81·6	− 0·3	1061	− 71	137	+ 32	98	+ 3	20·00	506	+180	4·6	−0·5	38	1013
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F			inches.	mm.	mm	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: June 20th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN

FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 25.

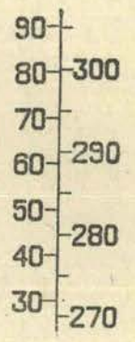
THE TWENTY-FIFTH WEEK OF 1919.

SUNDAY, JUNE 15TH, TO SATURDAY, JUNE 21ST, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

Over Ireland and the west and north of Scotland unsettled weather prevailed throughout the week, but over England the first half of the period remained very fine and warm, the latter part being showery and much cooler. The winds, which were mostly southerly or south-westerly, were fresh or strong in force on Friday and Saturday, with gales locally. The mean temperature of the week showed an excess of the normal in England N.E., England E., and in the Midland Counties, and was equal to the mean in England S.E., but elsewhere there was a deficit of about 1 a. In some parts of the first-named districts temperature rose to about 300 a. on the 16th, while, on the other hand, at some coast stations in the north-western districts it failed to exceed 289 a. all the week; on the 20th in some parts of central England it was no higher than 286 a. The total rainfall was more than the normal in Scotland N., Scotland W., Ireland N., and England E. and S.E., less in all other districts. Individual measurements exceeding 20mm. were registered at Fort William and Ford (Argyll) on the 15th and 16th, and in the London district on the 20th, when steady rain fell for about 15 hours. Thunder and lightning, with hail in places, occurred very generally over England E. and S.E. on Saturday. A thunderstorm was also reported at Armagh on the 16th. Bright sunshine was in excess of the normal, except in Ireland S.; in England E. and S.E. the daily mean, 9·7 hours, was about 3 hours more than the normal; on each of the first three days of the week between 14 and 15 hours were recorded. Solar halos were observed on the 15th at Birmingham and Tenbury, on the 18th and 19th at Oxford and Greenwich, and on the 20th at Glasgow. On the 15th a sun pillar was seen at Oxford.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E. Shoeburyness.†		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	22	6·2	22	5·5	—	—	16	2·5	22	4·8	12	2·6	20	3·7	22	4·0
North	1	0·9	3	2·0	—	—	5	1·5	2	3·8	14	3·8	2	2·6	4	2·4
West	13	4·8	24	4·4	—	—	19	2·3	27	3·8	22	3·4	16	5·1	22	3·2
East	7	3·7	1	2·2	—	—	2	1·2	1	0·5	3	2·1	3	2·3	5	0·6
Calm	2	—	1	—	—	—	7	—	0	—	0	—	3	—	1	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Moderate	Unusual	Unusual	Moderate	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Moderate
	Rainfall ...	Heavy	Moderate	Light	Heavy	Moderate	Moderate	Heavy	Moderate	Moderate	Moderate	Moderate	Moderate
	Sunshine ...	Abundant	Moderate	Moderate	Abundant	Abundant	Abundant	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SUMMER. 3 weeks from June 1st, 1919.	Warmth ...	0, 2, 1	1, 2, 0	3, 0, 0	2, 1, 0	2, 1, 0	1, 2, 0	1, 1, 1	2, 0, 1	1, 1, 1	1, 0, 2	1, 0, 2	1, 2, 0
	Rainfall ...	3 0, 0	0, 3, 0	0, 0, 3	1, 0, 2	0, 2, 1	0, 1, 2	2, 1, 0	0, 2, 1	0, 2, 1	1, 2, 0	1, 1, 1	0, 1, 2
	Sunshine ...	1, 1, 1	1, 1, 1	1, 2, 0	2, 1, 0	2, 1, 0	2, 1, 0	1, 1, 1	1, 2, 0	2, 1, 0	0, 3, 0	1, 2, 0	0, 3, 0

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{5}{9}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour

(23963—19.) Wt 162—833/512. 625. 6/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM:

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average
	Ft.	°F.		°F		°F.	°F.	°F	°F		in	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																						
a, Islands.. a Lerwick	54	57	21st	45	19th	55·3	47·9	51·3	+ 1·3	4	0·43	11	- 2									
a Houton Bay, Orkney	520	60	19th	42	17, 18	54·0	43·9	48·5	—	2	0·21	5	—	Houton Bay	7·2	+ 2·3	40	*	*	*	*	*	*
a Stornoway	51	58	21st	42	21st	53·3	45·9	50·7	- 2·0	7	2·05	52	+ 35	Stornoway	6·0	+ 0·6	33	*	*	*	*	*	*
a Castlebay, Barra I.	37	55	21st	47	20th	53·7	48·6	51·0	—	7	0·51	13	—	Castlebay	7·1	—	40	*	*	*	*	*	*
b, Mainland. a Wick	81	61	16, 19	41	17th	58·7	45·7	51·8	- 0·3	5	0·40	10	- 4									
a Strathpeffer	125	63	16th	39	17th	61·1	44·9	52·4	- 2·6	6	0·28	7	- 7									
p Glencarron	500	—	—	—	—	—	—	—	—	—	—	—	—									
a Fort Augustus	88	59	16–20	42	21st	58·3	45·7	51·6	- 2·8	3	1·06	27	+ 12									
p Fort William	171	61	17–19, 21	43	17th	58·9	46·0	52·0	- 3·6	7	3·18	81	+ 55									
1. SCOTLAND, E.																						
a Nairn	82	68	16th	40	17th	63·9	46·6	54·7	+ 0·4	4	0·45	11	- 2	Nairn	7·8	—	44	*	*	*	*	*	*
p Gordon Castle	101	66	15, 16	44	17th	63·7	47·1	54·8	+ 0·7	2	0·58	15	- 1	Gordon Castle..	7·1	—	46	*	*	*	*	*	*
a Aberdeen	46	66	19th	43	17th	62·6	48·4	55·0	+ 1·2	3	0·11	3	- 10	Aberdeen	5·9	+ 0·4	34	0	36	*	*	51·8	+1·1
a Balmoral	980	62	16, 17, 21	37	17, 21	59·1	43·4	50·7	- 1·9	5	0·25	6	- 9	Balmoral	*	*	*	0	34	*	*	*	*
p Crieff	432	64	21st	41	17th	60·4	45·7	52·5	- 3·5	6	0·65	17	- 2	Crathes	5·2	- 0·1	30	0	31	56·3	+0·5	52·6	+0·7
a Dundee	244	64	21st	38	17th	62·6	44·9	53·1	- 2·5	2	0·09	2	- 12	Dundee	6·4	—	37	0	33	57·9	*	*	*
a Leith	30	65	16th	46	21st	62·6	49·9	55·8	- 0·2	2	0·05	1	- 12	Leith	—	—	—	0	41	*	*	*	*
p Edinburgh	441	64	17, 21	45	17, 20, 21	61·6	48·8	54·5	+ 0·5	1	0·06	2	- 12	Edinburgh	6·2	+ 0·6	36	0	41	*	*	*	*
a West Linton	769	62	17th	41	17th	58·3	43·7	50·5	- 2·0	4	0·28	7	—	West Linton	3·7	—	21	0	33	*	*	*	*
p Marchmont	498	67	17th	41	21st	61·4	45·0	52·6	- 1·5	1	0·05	1	- 16	Marchmont	4·9	- 0·8	28	*	*	*	*	*	*
6. a, SCOTLAND, W.																						
a Ford (Argyll)	149	60	17–19, 21	41	17th	58·5	46·0	51·8	—	7	2·56	65	—	Ford (Argyll)	*	*	*	0	34	56·5	—	52·2	—
p Glasgow Observatory	180	61	17, 21	45	17th	59·3	48·4	53·5	- 2·3	4	0·89	23	+ 4	Glasgow	6·1	+ 1·3	35	0	36	*	*	*	*
p Rothesay	200	60	19th	43	17th	57·3	46·0	51·3	- 4·4	7	2·40	61	+ 37	Rothesay	5·6		32	0	36	56·3	—	53·0	0·0
a Kilmarnock	90	63	17th	43	17th	60·7	48·9	54·4	- 0·6	4	1·54	39	+ 20	Kilmarnock	5·6	—	33	*	*	56·9	—	52·9	—
a Colmonell	176	62	19th	42	17th	60·1	48·1	53·7	- 0·7	5	0·74	19	0	Colmonell	*	*	*	0	38	*	*	*	*
p Cally, Gatehouse	120	63	17th	43	17th	60·6	46·7	53·2	- 1·8	5	1·06	27	+ 4	Dumfries	5·5	—	32	0	35	56·6	-3·0	53·4	-2·8
p Dumfries	160	63	17th	44	20th	59·9	48·4	54·8	- 2·9	3	0·61	10	- 3	Eskdalemuir	4·7	—	27	0	33	*	*	*	*
a Eskdalemuir	794	61	17, 21	38	17th	57·7	42·6	49·6	—	4	1·06	27	—									
b, I. OF MAN p Douglas	277	60	18th	46	21st	58·1	48·3	52·9	- 2·3	4	0·63	16	- 3	Douglas	6·9	+ 0·4	41	0	43	*	*	*	*
2. ENGLAND, N.E.																						
a Alnwick Castle	210	68	18th	42	15th	64·3	46·4	54·7	- 0·2	2	0·05	1	- 15									
a Tynemouth	71	70	16th	45	15, 21	66·1	48·1	56·5	+ 1·8	1	0·12	3	- 11	Cockle Park	3·7	- 1·9	22	0	32	57·5	+1·1	53·9	+1·0
p Durham	336	69	16th	43	21st	64·7	47·0	55·2	- 0·5	4	0·19	5	- 9	Durham	6·0	+ 0·6	35	0	35	*	*	*	*
a North p Rounton	249	74	16th	42	21st	66·6	47·7	56·5	+ 1·3	3	0·20	5	- 12	Rounton	*	*	*	1	28	59·1	*	*	*
a West Witton	605	71	16th	42	15th	65·3	47·7	55·9	—	2	0·14	4	—	West Witton	*	*	*	0	38	59·5	—	52·0	—
p Scarborough	100	71	15, 16	52	15, 17, 21	66·9	55·3	60·7	+ 4·6	1	0·01	0·3	- 13	Scarborough†	6·8	+ 1·3	40	*	*	*	*	47·2	—
p York	56	76	16th	46	15th	67·7	51·6	59·1	+ 1·2	3	0·07	2	- 13	York	4·6	- 1·0	27	—	—	59·1	+1·7	54·7	+1·2
a Spurn Head	26	78	19th	49	21st	67·3	53·1	59·7	+ 3·2	4	0·21	5	- 6	Spurn Head	2·8	-	17	*	*	*	*	*	*
b, South a Lincoln	58	79	16th	49	21st	70·9	52·0	60·8	+ 2·3	3	0·16	4	- 10	Lincoln	*	*	*	0	48	62·4	+3·1	55·9	+1·6
a Fulbeck	180	78	16th	47	21st	70·4	50·9	60·0	+ 2·0	9	0·47	12	- 2	Fulbeck*	9·1	+ 2·8	54	*	*	64·3	+2·8	57·3	+2·1
														Skegness	7·8	+ 1·1	47	*	*	*	*	*	*
3. ENGLAND, E.																						
p Cromer	196	81	16th	47	15th	68·4	51·0	59·1	+ 2·4	2	0·49	12	+ 1	Cromer	9·3	+ 3·0	56	*	*	*	*	*	*
a Little Massingham	280	80	16th	44	16th	70·0	48·3	58·4	+ 0·6	3	0·45	12	- 1	Lit. Massingham	8·9	+ 2·7	54	*	*	*	*	*	*
a Yarmouth	13	74	19th	49	15th	65·9	52·4	58·7	+ 1·5	2	0·59	15	+ 5	Yarmouth	10·0	—	60	0	47	62·3	-0·3	57·9	+0·1
a Norwich	93	81	16th	46	15th	71·4	51·3	60·7	+ 2·6	3	0·53	13	+ 2	Norwich	9·6	—	58	0	41	62·2	*	*	*
a Geldeston	37	81	16th	47	16, 17	70·9	49·6	58·5	+ 1·9	3	0·80	20	+ 10	Geldeston	9·1	+ 2·4	55	*	*	*	*	*	*
p Cambridge	41	81	16th	41	15th	74·6	46·7	59·2	+ 0·4	2	0·76	19	+ 7	Cambridge	10·2	+ 3·7	62	0	35	63·2	+2·3	56·8	+0·1
a Clacton-on-Sea	54	72	19th	50	16, 17	66·1	53·7	59·5	+ 1·7	2	0·92	23	+ 14	Clacton	10·1	+ 3·0	62	0	46	62·1	+2·7	57·3	+0·7
a Rothamsted	424	77	16th	39	15th	69·3	47·7	58·8	+ 0·1	1	0·22	6	- 6	Rothamsted	10·7	+ 4·3	65	0	35	61·7	*	*	*
p Tottenham	51	80	16th	41	15th	73·1	51·7	61·7	—	3	1·10	28	—	Tottenham	10·2	—	62	0	44	*	*	59·6	—
														Sthend-on-Sea	9·4	—	57	0	49	*	*	*	*
4. MIDLAND COUNTIES.																						
a North a Harrogate	479	72	16th	43	21st	65·6	47·6	56·0	+ 0·5	5	0·39	10	- 5	Harrogate	6·2	+ 0·2	37	0	38	57·2	+1·9	55·2	+2·0
p Sheffield	439	74	16th	47	21st	66·1	51·6	58·4	—	4	0·10	3	—	Sheffield	7·1	+ 1·7	43	0	40	60·3	+3·6	53·3	+1·5
p Buxton	987	70	16th	42	15th	61·6	47·9	53·8	—	9	0·88	22	+ 1	Buxton	6·1	—	37	0	38	59·5	+2·5	53·7	+2·3
a Bawtry	65	78	16th	43	15th	68·1	49·9	58·4	+ 0·7	5	0·24	6	+ 4	Worksop	5·6	+ 0·4	34	0	31	59·6	—	55·6	—
a Nottingham	82	76	16th	48	21st	69·4	51·1	59·6	+ 1·9	4	0·17	4	- 9	Nottingham	6·6	+ 1·1	40	0	42	60·8	+1·5	57·0	+2·0
b, East p Birmingham, Edgbn.	535	73	15th	46	21st	67·3	50·1	58·1	+ 0·6	2	0·22	6	- 9	Birmingham	7·0	+ 2·3	42	0	38	57·1	+3·1	51·8	+1·3
a Raunds	203	80	16th	46	15, 21	71·7	49·6	59·9	+ 1·8	2	0·34	9	- 3	Raunds	9·1	—	55	0	36	61·7	—	53·4	—
p Oxford	208	77	16th	46	15, 21	70·6	49·9	59·5	+ 1·0	2	0·27	7	- 7	Oxford	9·1	+ 3·0	55	0	38	*	*	*	*
														Malvern	7·7	—	46	0	40	62·0	—	58·2	—
a Cheadle (N. Staffs.)	646	74	16th	43	16th	65·7	48·3	56·4	+ 0·3	3	0·26	7	- 10	Cheadle	*	*	*	0	42	*	*	*	*
c, West p Tenbury	313	73	15, 16	40	15th	67·9	46·7	56·6	- 0·5	2	0·20	5	- 8	Tenbury	*	*	*	0	37	60·8	—	—	—
p Ross-on-Wye	201	75	15th	45	21st	69·4	48·7	58·3	+ 0·1	1	0·15	4	- 9	Ross-on-Wye	8·0	—	48	0	38	—	—	—	—
a Clifton	328	74	15th	48	15th	65·7	51·7	58·2	- 1·4	3	0·41	10	- 8	Clifton	8·0	—	49	0	47	*	*	*	*
5. ENGLAND, S.E.																						
a Marlborough	424	75	16th	37	15th	68·0	44·4	55·4	- 1·2	3	0·48	12	- 1	Worthing	10·5	+ 3·1	64	0	41	62·7	+0·8	57·0	-0·1
p Salisbury (Wilton)	180	75	16, 18	38	15th	69·7	44·9	56·4	- 2·0	2	0·53	13	+ 1	Marlborough	8·2	+ 2·3	50	0	32	60·7	—	55·5	—
a Wisley, Surrey	160	80	16th	40	15th	72·4	47·3	59·0	+ 0·8	3	0·94	24	+ 14	Salisbury	*	*	*	0	36	61·1	*	*	*
a Tunbridge Wells	354	78	16th	44	16th	70·3	49·0	58·9	+ 1·0	3	0·73	19	+ 7	Wisley	10·1	+ 3·4	62	2	28	60·7	+0·2	55·5	-0·9
a Margate	51	80	16th	51	15th	70·1	53·7	61·3	+ 3·0	2	0·43	11	+ 1	Tunbridge Wells	10·0	+ 3·3	61	0	31	60·5	-0·9	56·0	—
														Margate	9·1	+ 2·8	55	0	42	66·4	+6·8	60·3	+4·2
a Dungeness	21	68	16th	46	16th	63·1	50·6	56·4	- 1·1	2	0·35	9	0	Folkestone	9·6	—	59	*	*	*	*	52·3	—
p St. Leonards	178	71	16th	51	17, 18, 21	65·1	52·6	58·4	+ 0·4	3	0·15	4	- 6	St. Leonards	10·3	+ 2·9	63	0	43	63·3	—	56·8	—
p Southampton	64	73	16th	46	16th	68·9	49·3	58·4	- 1·4	2	0·48	12	+ 1	Southampton	9·4	+ 2·5	58	0	34	*	*	*	*
a Ventnor	59	70	16th	49	21st	65·6	52·0	58·3	- 0·4	2	0·58	15	+ 5	Ventnor	9·3	+ 2·4	57	*	*	*	*	*	*
LONDON. a Richmond (Kew Obs.)	18	78	15, 16, 18	45	15, 16	71·9	50·9	60·7	+ 1·5	3	1·10	28	+ 16	Richmond	10·0	+ 3·7	61	0	32	61·7	+1·8	55·0	-0·4
a Westminster	27	80	16th	45	15th	71·9	51·5	61·0	+ 1·3	3	1·21	31	+ 20	Westminster	10·2	+ 4·6	62	0	?38	*	*	*	*
ag Greenwich	149	83	16th	44	15th	75·1	50·4	61·9	+ 1·2	3	1·30	33	+ 21	Greenwich	10·7	+ 4·0	65	2	27	*	*	*	*
a Hampstead	450	78	16th	47	21st	71·7	50·9	60·6	—	3	1·17	30	—	Hampstead	10·3	—	63	0	32	*	*	*	*
ag Camden Square	110	83	16th	46	15th	75·3	53·3	65·5	+ 2·6	3	1·12	28	+ 17	Camden Square	9·5	+ 3·7	58	0	43	*	*	*	*
7. a, ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	64	17th	44	21st	59·4	47·1	52·3	- 3·2	4	0·98	25	+ 6	Aspatria	6·2	+ 0·3	36	0	42	56·3	-1·9	52·8	+0·2
p Newton Rigg	550	67	17th	44	15, 21	62·0	46·1	53·5	- 2·2	5	0·53	15	- 1	Newton Rigg	6·0	0·0	35	0	34	58·2	+0·4	53·7	+1·1
p Stonyhurst	375	68	15th	44	15th	62·4	48·7	55·1	- 1·3	4	0·81	21	- 2	Stonyhurst	6·4	+ 1·0	38	0	37	*	*	*	*
p Blackpool	66	67	16th	44	15th	62·6	49·9	56·8	- 0·8	4	0·49	12	- 4	Blackpool	7·4	+ 0·9	44	0	33	51·9	—	49·0	—
a Southport	37	67	16th	45	15th	61·3	50·3	55·4	- 1·6	4	0·54	14	- 2	Southport	8·2	+ 1·9	49	0	36	62·5	+1·4	59·1	+1·6
														Hoylake	—	—	—	*	*	*	*	*	*
a Liverpool (Bidston)	188	69	16th	45	21st	62·4	50·9	56·3	- 1·3	5	0·36	9	- 7	Liverpool	6·1	—	37	0	40	*	*	*	*
a Hawarden Bridge	22	71	15th	44	15th	64·3	50·4	56·9	- 1·3	4	0·16	4	- 10	Manchester(City)	6·6	+ 1·7	40	0	44	60·7	+2·2	57·9	+2·4
p Manchester (Whit. Pk.)	130	73	15, 16	46	15, 21	65·1	50·0	57·0	- 1·5	3	0·52	13	- 7	Whitworth Park	6·1	+ 1·4	37	*	*	*	*	*	*
b, NORTH WALES.																						
p Llandudno	6	65	15th	46	15th	61·9	51·0	56·1	- 1·5	4	0·19	5	- 10	Llandudno	6·3	0·0	38	*	*	*	*	*	*
a Holyhead	15	63	17th	48	15, 21	60·0	50·0	54·7	- 1·4	1	0·24	6	- 10	Holyhead	4·9	—	29	0	46	*	*	*	*
a Beddgelert	309	61	18th	44	15th	59·6	48·6	53·7	—	6	1·73	44	—	Aberdovey	—	—	—	*	*	*	*	*	*
a Aberdovey	32	—	—	—	—	—	—	—	—	—	—	—	—									

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Hi. best.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average	Earth 4 ft. Mean.	Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
8. *a.* SOUTH WALES.																						
a Aberystwyth	59	61	15, 16	45	15th	59·6	51·1	55·1	—	3	0·87	22	—	Aberystwyth ..	5·7	- 0·2	34	*	*	*	*	*
a Rhayader	757	67	15th	37	15th	60·9	45·9	52·9	—	5	0·27	7	—	Rhayader ..	6·2	—	38	1	28	*	*	*
a St. Ann's Head	149	60	15th	48	15th	57·7	50·9	54·1	- 1·7	4	0·37	9	- 3	St. Ann's Head	6·2	- 0·4	38	*	*	*	*	*
p Cardiff	202	72	15, 21	46	15th	66·0	50·1	57·5	- 0·2	3	0·17	4	- 12	Cardiff	7·7	—	47	0	39	61·6	+1·3	56·2	+0·2
b, ENGLAND, S.W.																						
a Bath	66	75	15th	42	15th	68·4	49·4	58·2	+ 0·1	3	0·41	10	- 4	Bath	*	*	*	—	—	63·4	+3·1	58·4	+1·5
a Shaftesbury	722	70	16, 18	44	21st	65·3	48·7	56·4	- 0·3	2	0·41	10	- 4	Shaftesbury ..	*	*	*	*	*	60·9	—	56·1	—
a Arlington	813	68	15th	40	15th	62·1	46·7	53·9	- 2·1	4	0·44	11	- 9										
a Newquay	193	65	17th	40	15th	60·9	47·7	53·8	- 3·1	4	0·24	6	- 6	Newquay ..	7·3	+ 0·8	45	0	33	60·6	—	55·8	—
a Cullompton	202	75	15th	38	15th	69·4	46·4	57·1	- 0·8	2	0·21	5	- 8	Cullompton ..	7·5	+ 1·6	46	0	33	63·8	*	*	*
a Portland Bill	19	62	18th	50	16th	60·0	52·3	55·9	- 1·1	2	0·43	11	+ 3	Weymouth ..	8·1	—	50	*	*	*	*	*	*
p Plymouth	118	69	18th	45	15, 16	63·7	50·0	56·4	- 1·9	3	0·46	12	- 1	Plymouth ..	6·6	+ 0·1	40	0	39	62·7	+2·0	57·2	—
a Falmouth	167	67	15, 18	46	16th	63·0	49·4	55·7	- 1·7	4	0·54	14	0	Falmouth ..	7·6	+ 0·8	47	0	37	62·4	—	59·4	—
9. IRELAND, N.																						
a West .. { *a* Malin Head	208	59	17th	47	17, 21	58·7	48·6	52·4	- 2·1	7	0·87	22	+ 6	Malin Head ..	6·4	—	37	*	*	*	*	*	*
{ *a* Blacksod Point ..	327	57	17, 18, 21	44	18, 20	56·0	48·3	51·9	- 4·1	6	1·89	48	+ 28	Markree Castle	5·1	- 0·2	30	0	33	57·8	-1·3	54·0	+0·1
{ *p* Markree Castle ..	122	62	18th	40	17th	60·0	45·6	52·3	- 3·0	6	0·85	22	0										
b, East .. { *p* Armagh	196	65	21st	43	17, 21	62·7	46·4	54·0	- 2·0	5	0·46	12	- 6	Armagh	6·4	+ 1·0	38	0	37	57·2	-1·0	54·0	-0·5
{ *a* Donaghadee	101	64	19th	41	20th	60·6	47·3	53·5	- 1·8	6	0·57	14	- 3										
10. IRELAND, S.																						
p Dublin, City	47	65	15th	46	21st	62·9	51·0	56·5	- 1·4	4	0·12	3	- 13	Trinity Coll. ..	*	*	*	—	—	—	—	—	—
a Birr Castle	175	63	15, 18, 21	45	17th	61·3	47·3	53·8	- 3·0	4	0·35	9	- 10	Phœnix Park ..	4·8	- 1·1	29	0	41	*	*	*	*
a Kilkenny	212	69	17th	43	21st	63·7	47·1	54·8	- 2·0	5	0·25	6	- 14	Dublin City ..	*	*	*	0	43	*	*	*	*
a Waterford	120	65	21st	45	18, 21	62·3	47·7	54·5	- 3·0	2	0·10	3	- 18	Birr Castle ..	4·6	- 0·5	28	0	38	*	*	*	*
p Seskin, Carrick-on-Suir	541	66	21st	43	21st	61·7	46·1	53·4	—	5	0·18	5	—	Seskin	5·3	—	32	0	36	*	*	*	*
a Cahir	199	65	17, 18, 21	43	18th	62·9	47·6	54·7	- 2·1	4	0·42	11	—										
a Foynes	50	64	18th	45	21st	61·6	50·0	55·4	- 1·7	6	0·57	15	- 6										
a Cahirciveen (Val. Obs.)	30	61	15th	44	17th	58·9	49·9	54·1	- 2·6	5	0·71	18	- 8	Cahirciveen ..	6·2	+ 0·4	38	0	40	*	*	*	*
a Killarney	174	66	21st	44	17th	62·6	49·9	55·8	- 1·3	6	0·60	15	- 8	Ballinacurra ..	5·2	- 0·8	32	*	*	*	*	*	*
a Roche's Point	32	64	21st	48	18, 21	60·6	49·9	54·9	- 2·0	4	0·14	4	- 17										
11. ENGLISH CHANNEL.																						
a Scilly, St. Mary's ..	131	63	17, 18	49	15, 20	61·3	51·6	56·1	- 1·4	5	0·69	18	+ 7	Scilly	6·7	- 0·5	42	*	*	*	*	*	*
a Jersey, St. Aubins ..	25	73	15th	48	19th	66·6	51·6	58·6	- 0·5	1	0·12	3	- 10	St. Heliers ..	9·6	+ 2·1	60	*	*	*	*	*	*
a Guernsey (Villa Carey)	180	75	15th	51	17, 21	66·6	53·0	59·3	+ 0·6	3	0·28	7	- 5	Guernsey† ..	9·4	+ 1·8	59	0	42	63·2	+1·9	58·6	+0·7

†The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, June 21st, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	19, 20	13	96	45	14	0	146	14	19	7	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	11	109	48	0	169	7	19	7	17	16	9	30
Aberdeen	153	105	52	—	—	—	—	38	96	34	0	169	9	19	6	16	19	5	35
Edinburgh	485	39	31	—	—	15, 16, 19	30	75	58	5	0	191	14	16	16	21	16	15	45
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	15, 16, 19	25	80	38	25	0	200	13	19	8	22	19	8	0
Paisley	188	81	15	—	—	—	—	70	85	13	0	191	10	16	17	23	16	18	50
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
South Shields	72	61	12	—	—	—	—	45	112	11	0	236	10	19	16	17	19	16	15
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	—	—	53	101	14	0	—	10	16	14	12	21	13	25
Shoeburyness	103	90	‡	—	—	—	—	39	67	13	49	281	9	21	14	17	21	13	25
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	—	—	—	0	225	8	19	17	15	21	11	30
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	11	117	40	0	—	7	21	13	13	21	11	55
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	19	1	63	86	18	0	220	12	19	16	15	19	15	30
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	8	73	87	0	214	8	19	15	14	19	15	0
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	1	82	85	0	236	6	21	17	11	16	16	35
Fleetwood (Cup Anr.) ..	109	44	—	—	—	19, 21	11	75	80	2	0	304	13	21	17	—	—	—	—
Southport	80	62	48	—	—	16, 20, 21,	20	74	68	6	0	225	13	16	18	19	21	4	10
Holyhead	60	40	‡	—	—	15, 16, 19, 21	9	95	58	6	0	203	12	19	12	18	19	12	25
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	17, 19	10	68	66	24	0	225	14	19	15	19	19	14	30
Plymouth	185	28	2	—	—	—	—	27	109	32	0	—	8	19	14	13	21	14	55
Lyme Regis (Rousdon)	600	65	30*	—	—	—	—	—	55	113	0	—	5	19	14	10	21	14	10
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	19, 21	7	52	100	9	0	247	12	19	16	—	—	—	—
Quilty	100	40	‡	—	—	15, 16	8	124	36	0	0	—	12	15	13	17	19	5	40
Cahirciveen (Val. Obs.)	98	41	‡	—	—	15, 16, 18, 19	16	73	67	12	0	205	13	19	3	19	19	3	5
Weaver Pt.	160	30	‡	—	Instrument out of action.			—	—	—	—	—	—	—	—	—	—	—	—
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	24	92	52	0	315	9	21	7	15	21	3	30

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.] * Above tops of trees.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

TWENTY-FIFTH WEEK of 1919—June 15th to June 21st, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	63	39	87·5	80·8	83·9	− 0·8	67	− 12	0	0	5	+ 1	1·23	31	+ 12	6·6	+1·9	37	1011
Eastern.																			
1. SCOTLAND, EAST ...	68	37	89·4	80·9	84·8	− 0·6	79	− 8	0	0	3	− 1	0·30	8	− 8	6·1	+0·6	35	1013
2. ENGLAND, N.E.	79	42	92·6	83·1	87·5	+ 1·1	113	+ 15	0	0	3	0	0·16	4	− 10	6·3	+0·4	37	1018
3. ENGLAND, EAST ...	81	39	94·1	83·2	88·2	+ 0·8	122	+ 10	0	0	2	− 1	0·65	17	+ 6	9·8	+3·2	59	1020
4. MIDLAND COUNTIES ...	80	40	93·1	82·7	87·5	+ 0·4	113	+ 5	0	0	3	0	0·27	7	− 7	7·4	+1·6	45	1020
5. ENGLAND, S.E.	80	37	93·3	82·7	87·6	0·0	114	0	0	0	3	0	0·58	15	+ 4	9·7	+2·7	59	1021
Western.																			
6. SCOTLAND, WEST ...	63	41	88·2	81·7	84·7	− 1·4	78	− 18	0	0	5	+ 1	1·30	33	+ 11	6·5	+0·8	38	1016
7. ENGLAND, N.W.	73	44	89·8	82·7	85·9	− 0·8	93	− 10	0	0	4	0	0·48	12	− 6	6·5	+0·8	39	1019
8. ENGLAND, S.W.	75	37	90·6	82·4	86·2	− 0·7	97	− 9	0	0	3	− 1	0·37	9	− 5	6·7	+0·6	41	1021
9. IRELAND, NORTH ...	65	40	88·3	81·5	84·7	− 1·4	77	− 18	0	0	6	+ 1	0·83	21	+ 1	5·8	+0·5	34	1015
10. IRELAND, SOUTH ...	69	43	89·6	82·4	85·7	− 1·2	90	− 15	0	0	4	0	0·36	9	− 12	5·2	−0·4	31	1020
11. ENGLISH CHANNEL ...	75	48	91·2	84·2	87·4	− 0·2	112	− 2	0	0	3	0	0·36	9	− 3	8·6	+1·1	54	1023

THE SEASON (Summer).—Aggregates, &c., for the Period of 3 Weeks, June 1st to June 21st, 1919.

0. SCOTLAND, NORTH ...	67	39	87·6	81·2	84·2	0·0	212	− 6	0	− 1	16	+ 5	3·29	83	+ 36	4·9	−0·4	28	1015
Eastern.																			
1. SCOTLAND, EAST ...	78	29	90·4	81·3	85·5	+ 0·7	265	+ 23	0	0	11	+ 1	1·23	32	− 6	6·2	+0·3	35	1016
2. ENGLAND, N.E.	84	39	93·0	82·8	87·5	+ 1·9	339	+ 73	0	0	8	− 1	0·44	11	− 24	8·0	+1·9	48	1019
3. ENGLAND, EAST ...	84	32	93·6	82·9	87·9	+ 1·3	352	+ 47	0	0	4	− 5	0·81	21	− 15	9·0	+2·3	54	1021
4. MIDLAND COUNTIES ...	84	35	92·2	82·8	88·0	+ 1·5	359	+ 57	0	0	7	− 2	0·67	17	− 21	7·9	+1·8	48	1021
5. ENGLAND, S.E.	82	36	93·3	83·0	87·8	+ 0·8	348	+ 27	0	0	5	− 4	0·68	17	− 18	8·5	+1·5	53	1022
Western.																			
6. SCOTLAND, WEST ...	76	37	89·6	82·0	85·5	+ 0·2	264	− 9	0	0	14	+ 4	3·90	99	+ 48	6·6	+0·2	39	1018
7. ENGLAND, N.W.	83	36	91·2	83·2	86·9	+ 0·7	314	+ 26	0	0	9	− 1	1·11	28	− 12	7·5	+0·9	45	1020
8. ENGLAND, S.W.	81	35	91·5	83·0	86·9	+ 0·3	318	+ 14	0	0	6	− 4	0·90	22	− 20	7·6	+0·9	47	1022
9. IRELAND, NORTH ...	73	36	89·1	81·9	85·3	− 0·4	253	− 16	0	0	14	+ 2	3·00	76	+ 28	5·4	+0·3	32	1018
10. IRELAND, SOUTH ...	79	38	90·8	82·8	86·5	0·0	299	− 3	0	0	10	0	1·79	45	− 2	6·2	+0·1	38	1022
11. ENGLISH CHANNEL ...	80	48	91·2	84·5	87·6	+ 0·5	342	+ 19	0	0	4	− 5	0·37	9	− 24	8·0	+0·3	50	1024

THE YEAR 1919.—Aggregates, &c., for the Period of 25 Weeks, December 29th, 1918, to June 21st, 1919.

0. SCOTLAND, NORTH ...	78	11	81·4	75·3	78·3	− 0·6	603	− 57	680	+ 141	108	− 7	17·92	481	− 96	3·7	+0·2	29	1010
Eastern.																			
1. SCOTLAND, EAST ...	78	5	81·9	74·7	78·2	− 0·8	688	− 68	787	+ 170	92	− 6	12·57	323	− 8	3·7	−0·3	30	1011
2. ENGLAND, N.E.	84	11	83·0	76·1	79·4	− 0·3	851	+ 12	578	+ 106	92	+ 3	11·33	288	+ 31	4·0	−0·2	32	1012
3. ENGLAND, EAST ...	84	10	83·6	76·1	79·8	− 0·3	955	− 48	580	+ 86	86	− 1	11·58	297	+ 45	4·4	−0·1	35	1013
4. MIDLAND COUNTIES ...	84	9	83·5	75·9	79·7	− 0·4	978	− 46	628	+ 106	86	0	13·96	355	+ 69	4·0	0·0	32	1013
5. ENGLAND, S.E.	82	16	84·1	76·9	80·4	− 0·4	1055	− 34	451	+ 72	88	+ 3	14·54	368	+ 84	4·3	−0·3	35	1013
Western.																			
6. SCOTLAND, WEST ...	83	14	82·8	76·2	79·4	− 0·5	792	− 71	539	+ 123	100	− 4	18·71	475	− 33	3·9	−0·1	32	1012
7. ENGLAND, N.W.	83	16	83·1	76·8	79·8	− 0·4	876	− 37	494	+ 112	92	− 1	14·04	358	− 1	4·1	0·0	33	1012
8. ENGLAND, S.W.	81	15	83·6	77·1	80·3	− 0·6	964	− 88	409	+ 108	95	+ 2	19·20	489	+ 83	4·4	−0·1	36	1013
9. IRELAND, NORTH ...	76	22	83·2	76·7	79·9	− 0·5	833	− 89	437	+ 97	114	+ 1	16·17	407	− 6	3·9	0·0	32	1011
10. IRELAND, SOUTH ...	80	22	84·1	77·5	80·7	− 0·5	1000	−114	362	+ 102	109	+ 9	16·70	426	− 17	4·0	−0·1	33	1012
11. ENGLISH CHANNEL ...	80	26	84·5	79·4	81·9	− 0·3	1173	− 73	137	+ 32	101	+ 3	20·36	515	+177	4·8	−0·4	39	1014
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm	mm.	hr.	hr.	%	b.m

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: June 27th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 26.

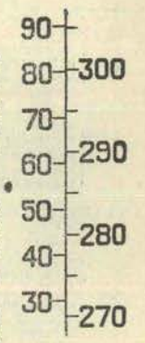
THE TWENTY-SIXTH WEEK OF 1919.

SUNDAY, JUNE 22ND, TO SATURDAY, JUNE 28TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

The general character of the weather during the week was changeable and showery, with uniformly low temperatures and north-westerly winds of considerable strength. Barometric pressure was high to the westward of the British Isles, and depressions moving south-eastwards from the Iceland regions affected the weather over this country. In all districts the mean temperature was below the normal, the largest deficit being 3·5 a. in England E. On the first and also on the last day of the period maxima of about 294 a. were recorded over the southern half of England, but on the 26th the thermometer over a large part of England failed to exceed 285 a., and at Balmoral the reading was no higher than 283·5 a. A sharp ground frost was experienced on the following night, the exposed thermometers registering 271 a. at Ford (Argyll), Raunds and Tunbridge Wells, 270 a. at Wisley and 269 a. at Greenwich. Rainfall was equal to the normal in Scotland N., but below it in all other Districts. In England S. and the English Channel District there were only two rain-days, but in the northern and western Districts there were four or five days with rain. No large individual measurements were recorded. Thunder was heard at Cockle Park near Morpeth on the 23rd. Considerable sunshine was recorded on one or two days, notably in England N.W. on the 26th, but the daily mean was less than the normal in all districts; in England E. it was less than half the normal. Solar halos were observed at Oxford on the 22nd, at Oxford, Tenbury and Ross-on-Wye on the 24th and at Aberdeen on the 27th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E. Shoeburyness.†		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	9	3·4	8	3·2	9	1·8	8	2·0	7	4·3	2	2·1	6	3·0	4	2·8
North	15	6·8	12	3·8	15	3·9	14	2·4	16	5·4	26	5·4	13	3·9	22	5·3
West	25	4·5	24	6·2	27	5·0	21	3·2	21	6·7	23	5·0	23	8·7	21	4·9
East	0	—	1	1·9	0	—	1	1·8	1	4·2	3	2·2	3	2·8	4	1·5
Calm	0	—	1	—	0	—	5	—	2	—	0	—	1	—	2	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient
	Rainfall ...	Moderate	Moderate	Moderate	Moderate	Light	Light	Light	Light	Moderate	Moderate	Moderate	Moderate
	Sunshine ...	Moderate	Moderate	Very scanty	Very scanty	Very scanty	Scanty	Moderate	Scanty	Scanty	Scanty	Scanty	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SUMMER. 4 weeks from June 1st, 1919.	Warmth ...	0, 2, 2	1, 2, 1	3, 0, 1	2, 1, 1	2, 1, 1	1, 2, 1	1, 1, 2	2, 0, 2	1, 1, 2	1, 0, 3	1, 0, 3	1, 2, 1
	Rainfall ...	3 1, 0	0, 4, 0	0, 1, 3	1, 1, 2	0, 2, 2	0, 1, 3	2, 1, 1	0, 2, 2	0, 3, 1	1, 3, 0	1, 2, 1	0, 2, 2
	Sunshine ...	1, 2, 1	1, 2, 1	1, 2, 1	2, 1, 1	2, 1, 1	2, 1, 1	1, 2 1	1, 2, 1	2, 1, 1	0, 3, 1	1, 2, 1	0, 3, 1

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour

(24057—19.) Wt 162—833/512. 625. 7/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft	
						Of Daily Max.	Of Daily Min.	Daily Mean.										Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average
	Ft.	°F.		°F		°F.	°F.	°F	°F.		in	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																							
a. Islands .. a Lerwick ..	54	55	22, 23	43	26th	53·0	45·3	48·9	- 2·6	5	0·65	16	+ 5										
a Houton Bay, Orkney	520	55	22nd	41	26, 27	52·1	43·4	47·5	—	7	0·57	15	+ 3	Houton Bay ..	4·5	- 0·2	25	•	•	•	•	•	•
a Stornoway	51	61	27th	42	26th	55·7	47·0	51·1	- 2·7	5	0·71	18	+ 3	Stornoway ..	4 0	- 1·1	22	•	•	•	•	•	•
a Castlebay, Barra I. ..	37	55	28th	48	25, 26	53·6	49·3	51·3	—	7	0·34	9	—	Castlebay ..	3·6	—	20	•	•	•	•	•	•
b. Mainland. a Wick	81	61	27th	43	25th	54·4	45·3	49·5	- 3·9	7	0·79	20	+ 8										
a Strathpeffer	125	65	27th	38	25th	59·6	46·1	52·4	- 3·7	4	0·39	10	- 2										
p Glencarron	500	—	—	—	—	—	—	—	—	—	—	—	—										
a Fort Augustus..	68	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William	171	66	27th	39	26th	58·9	45·9	52·0	- 4·7	5	0·75	19	- 4										
1. SCOTLAND, E.																							
a Nairn	82	67	27th	43	22, 25	59·6	46·0	52·3	- 3·6	7	0·33	8	- 3	Nairn	5·0	—	28	•	•	•	•	•	•
p Gordon Castle	101	66	27th	43	26th	58·6	46·3	52·0	- 4·1	6	0·81	21	+ 7	Gordon Castle..	4·2	—	24	•	•	•	•	•	•
a Aberdeen	46	63	27th	43	26th	59·0	46·9	52·5	- 3·0	7	0·39	10	- 1	Aberdeen ..	5·5	- 0·8	31	0	37	•	•	52·1	+0·7
a Balmoral	930	62	27th	38	22, 26	55·7	41·3	48·0	- 6·1	6	0·49	12	+ 1	Balmoral ..	•	•	•	0	34	•	•	•	•
p Crieff	432	67	27th	41	25, 26	60·9	45·1	52·5	- 5·0	2	0·04	1	- 13	Crathes	5·0	- 1·0	28	0	32	55·7	-0·8	52·6	+0·1
a Dundee	244	71	27th	36	26th	62 4	44·6	52·9	- 4·4	4	0·26	7	- 4	Dundee	7·5	—	43	1	30	56·4	•	•	•
a Leith	30	67	27th	45	26th	61·3	48·9	54·7	- 3·0	5	0·22	6	- 4	Leith	—	—	—	0	41	•	•	•	•
p Edinburgh	441	67	27th	40	26th	61·0	46·0	53·0	- 2·9	5	0·24	6	- 5	Edinburgh ..	6·0	- 0·4	35	0	36	•	•	•	•
a West Linton	769	69	26th	37	26th	58·7	42·9	50·3	- 3·8	6	0·43	11	—	West Linton ..	5 2	—	30	0	31	•	•	•	•
p Marchmont	498	68	27, 28	40	25, 26	60·0	44·1	51·5	- 4·3	4	0·38	10	- 3	Marchmont .	4·7	- 1·8	27	•	•	•	•	•	•
6. a. SCOTLAND, W.																							
a Ford (Argyll)	149	60	27th	39	26th	56·3	45·1	50·3	—	5	0·93	24	—	Ford (Argyll) ..	•	•	•	1	28	56·5	—	52·7	—
p Glasgow Observatory	180	63	27th	42	26th	58·9	47·4	52·8	- 4·3	4	0·07	2	- 13	Glasgow.. ..	6·6	+ 1·6	38	1	29	•	•	•	•
p Rothesay	200	60	25, 27	41	26th	57·0	45·4	50·8	- 6·0	7	0·41	11	- 8	Rothesay ..	5·8	—	34	0	36	56·1	—	53·0	-0·6
a Kilmarnock	90	64	25th	35	26th	60·1	46·6	52·9	- 3·3	3	0·13	3	- 12	Kilmarnock ..	5·0	—	29	•	•	55·7	—	52·9	—
a Colmonell	170	61	25th	41	24th	58·7	46·6	52·2	- 3·4	4	0·41	10	- 5	Colmonell ..	•	•	•	0	37	•	•	•	•
p Cally, Gatehouse	120	65	26, 27	34	26th	61·0	45·0	52·4	- 3·8	5	0·28	7	- 11	Dumfries ..	5·7	—	34	1	29	55·4	-4·3	53·1	-3·7
p Dumfries	160	64	27th	37	26th	59·9	46·4	52 7	- 5·3	3	0·15	4	- 11	Eskdalemuir ..	5·5	—	32	1	28	•	•	•	•
a Eskdalemuir	794	63	27th	35	26th	57·7	42·4	49·5	—	5	0·42	11	—										
b. I. OF MAN p Douglas	277	63	27th	43	26th	57·4	46·9	51·8	- 4·7	6	0·49	13	- 2	Douglas	4·9	- 1·8	29	0	40	•	•	•	•
2. ENGLAND, N.E.																							
a North .. a Alnwick Castle ..	210	65	27th	43	25, 26	60·7	46·6	53 2	- 3·3	6	0·30	8	- 5										
a Tynemouth	71	67	27th	42	26th	58·7	46·1	52·0	- 4·4	3	0·13	3	- 9	Cockle Park ..	4·0	- 2·0	23	0	37	54·6	-2·3	53·4	-0 1
p Durham	336	68	27th	40	25, 26	61·4	44·3	52·3	- 5·0	5	0 41	11	- 1	Durham ..	3·9	- 1·9	23	0	31	•	•	•	•
p Rounton	249	67	27th	40	22, 27	60·6	44·6	52·0	- 4·8	6	0 32	8	- 7	Rounton ..	•	•	•	3	27	55·7	•	•	•
a West Witton	605	67	27th	41	22, 26	60·3	45·4	52·3	—	5	0·24	6	—	West Witton ..	•	•	•	0	37	55·8	—	52·3	—
p Scarborough	100	68	23rd	47	26th	62·1	—	—	—	5	0·38	10	- 1	Scarborough† ..	3·7	- 2·3	22	•	•	•	•	48·3	—
p York	56	67	27th	42	26th	61·3	47·3	53·8	- 5·6	4	0·28	7	- 6	York	2·3	- 3 7	14	—	—	56·4	-1·5	54·8	+0·6
b. South .. a Spurn Head	26	61	22, 27	45	26, 27	57 6	48·3	52·6	- 5·6	5	0·35	9	0	Spurn Head ..	0·8	—	5	•	•	•	•	•	•
a Lincoln	58	65	22nd	41	26th	60·4	46·4	52·9	- 7·1	4	0·51	13	+ 1	Lincoln	•	•	•	0	39	57·3	-2·3	56·4	+1·3
a Fulbeck	180	66	22nd	39	27th	61·3	45·7	53 0	- 6·6	4	0·32	8	- 4	Fulbeck* ..	2·6	- 4·3	16	•	•	—	—	—	—
														Skegness ..	3·6	- 3·6	24	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	67	22nd	44	27th	60·3	47·4	53·4	- 5·2	5	0·09	2	- 9	Cromer	3·0	- 4·1	18	•	•	•	•	•	•
a Little Massingham ..	280	65	22nd	37	27th	59·0	44·9	51·5	- 8·0	4	0·61	16	+ 3	Lit. Massingham	2·6	- 4·3	16	•	•	•	•	•	•
a Yarmouth	13	66	28th	41	27th	60·1	47·0	53·1	- 6·0	4	0·43	11	0	Yarmouth ..	3·2	—	19	0	42	59·0	-3·8	57·6	-0·9
a Norwich	93	66	22nd	39	27th	60·6	47·9	53·8	- 6·1	4	0·32	8	- 4	Norwich ..	3·1	—	19	0	35	58·7	•	•	•
a Geldeston	37	67	22nd	38	27th	61·9	45·1	53·5	- 5·9	4	0·21	5	- 6	Geldeston ..	3·8	- 3·7	23	•	•	•	•	•	•
p Cambridge	41	70	28th	34	27th	61 9	44·6	52·7	- 7·8	3	0·30	8	- 3	Cambridge ..	3·6	- 3·7	22	0	32	59·5	-1·8	57·3	-0·1
a Clacton-on-Sea ..	54	70	28th	40	27th	62·3	46·4	53·8	- 5·7	2	0·09	2	- 7	Clacton	4·4	- 3·5	27	0	37	58·1	-1·6	57·6	+0·3
a Rothamsted	424	67	22, 28	37	27th	61·6	46·4	53·5	- 5·2	2	0·05	1	- 11	Rothamsted ..	4·2	- 3·0	26	0	32	58·1	•	•	•
p Tottenham	51	71	28th	43	27th	63·0	49·0	55·5	—	0	0·00	0	—	Tottenham ..	4·1	—	25	0	40	•	•	59·9	+1·4
														S'thend-on-Sea	4·0	—	24	0	44	—	—	•	•
4. MIDLAND COUNTIES.																							
a North .. a Harrogate	479	65	27th	39	26th	59·0	44·9	51·5	- 5·7	4	0·45	12	- 3	Harrogate ..	3·7	- 3·0	22	0	35	54·8	-1·0	54·7	+0·9
a Sheffield	429	66	27th	40	26th	60·4	47·0	53·2	—	4	0·09	2	—	Sheffield.. ..	4·3	- 1·9	25	0	35	56·8	-0·5	53·9	+1·4
p Buxton	987	59	27th	41	22nd	55·3	46·4	50·5	—	6	0·65	17	- 4	Buxton	3·6	—	22	0	34	54·4	-3·1	53·7	+1·1
b. East .. a Bawtry	65	67	27th	41	26th	61·1	47·3	53·7	- 5·6	4	0·19	5	- 7	Worksop ..	2 6	- 3·2	15	0	31	56·5	—	55·3	—
a Nottingham	82	66	22nd	42	22nd	61·9	46·6	53·7	- 5·8	4	0·07	2	- 11	Nottingham ..	2·9	- 3·3	17	0	37	56·5	-3·1	56·8	+1·1
p Birmingham, Edgbn.	535	65	22, 27	42	26th	60·4	46·7	53·1	- 6·1	3	0·31	8	- 6	Birmingham ..	2·6	- 2·7	16	1	30	52·9	-1·4	51·9	+1·0
a Raunds	203	69	22nd	38	27th	62·9	45·6	53·7	- 6·3	3	0·05	1	- 12	Raunds	3·4	—	21	1	28	59·9	—	54·0	—
p Oxford	208	69	28th	42	27th	64·0	47·7	55·3	- 5·0	3	0·04	1	- 13	Oxford	5·1	- 1·8	31	0	36	•	•	•	•
														Malvern ..	5·4	—	33	0	38	59·0	—	58·2	—
c. West .. a Cheadle (N. Staffs.) ..	646	62	22nd	37	26th	58·1	45·0	51·1	- 6·6	4	0·51	13	- 4	Cheadle	•	•	•	0	37	•	•	•	•
p Tenbury	313	71	27th	36	22nd	64·4	45·4	54·2	- 4·6	4	0·09	2	- 10	Tenbury	•	•	•	0	32	58·0	—	—	—
p Ross-on-Wye	201	72	28th	38	22nd	66·6	46·1	55·6	- 4·3	3	0·06	1	- 12	Ross-on-Wye ..	5·0	—	30	0	33	—	—	—	—
a Clifton	228	67	28th	45	26th	63·1	49·7	55·9	- 5·5	3	0·20	5	- 13	Clifton	5·7	—	35	0	43	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	69	28th	35	22nd	63·7	45·3	53·9	- 4·2	4	0·10	3	- 9	Worthing ..	5·9	- 2·5	36	0	37	59·7	-2·8	57·5	-0·2
p Salisbury (Wilton) ..	180	70	28th	39	27th	64·4	46·9	55·0	- 5·1	1	0·09	2	- 9	Marlborough ..	4·7	- 2·0	29	1	30	58·4	—	55·6	—
a Wisley, Surrey ..	160	71	28th	37	27th	64·4	46·6	54·9	- 5·0	3	0·05	1	- 8	Salisbury	•	•	•	0	36	61·3	•	•	•
a Tunbridge Wells ..	354	73	28th	36	27th	64·3	45·4	54·2	- 5·5	2	0·04	1	- 9	Wisley	4·7	- 3·8	29	1	26	58·4	-2·7	55·8	-1·4
a Margate	51	71	28th	47	27th	62·1	50·3	55·8	- 4·4	3	0·15	4	- 5	Tunbridge Wells	3·8	- 3·8	23	1	28	58·5	-2·8	56·5	—
														Margate	3·1	- 4·1	19	0	45	60·9	+0·5	61·1	+4·3
a Dungeness	21	66	23, 24	39	27th	62·3	47·1	54·2	- 5·1	2	0·08	2	- 6	Folkestone ..	5·3	—	33	•	•	•	•	—	—
p St. Leonards	178	67	28th	43	27th	61·7	49·1	55·0	- 4·7	1	0·03	1	- 9	St. Leonards ..	5·4	- 3·0	33	0	39	60·6	—	57·8	—
p Southampton	64	71	28th	42	27th	64·0	49·1	56·0	- 5·4	3	0·07	2	- 8	Southampton ..	5·5	- 2·3	34	0	33	•	•	•	•
a Ventnor	59	66	28th	46	26th	62·9	50·6	56·3	- 4·1	2	0·10	3	- 6	Ventnor	5·2	- 2·8	32	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	70	28th	42	27th	62·8	47·2	54·5	- 6·5	2	0·05	1	- 10	Richmond ..	4·0	- 3·2	24	1	30	58·5	-1·9	55·6	-0·5
a Westminster	27	71	28th	42	27th	64·5	49·0	56·2	- 5 3	1	0·02	0·4	- 10	Westminster ..	3·9	- 2·5	24	0	37	•	•	•	•
ag Greenwich	149	74	28th	39	27th	66·1	47·6	56·2	- 4·8	2	0·06	2	- 10	Greenwich ..	4·4	- 2·5	27	2	24	•	•	•	•
a Hampstead	450	69	28th	41	27th	61·3	46·7	53·5	—	3	0·08	2	—	Hampstead ..	4·3	—	26	0	36	•	•	•	•
ag Camden Square ..	110	74	28th	41	27th	67·0	48·4	57·1	- 5·5	3	0·05	1	- 10	Camden Square	4·2	- 2·3	26	0	36	•	•	•	•
7. a. ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	61	27th	37	26th	57·3	45·3	50·9	- 6·2	4	0·35	9	- 9	Aspatria.. ..	4·3	- 2·1	25	0	35	55·0	-3·8	52·7	-0·5
p Newton Rigg	559	62	26th	39	26th	59·7	43·9	51·3	- 5·7	3	0·22	6	- 9	Newton Rigg ..	4·8	- 1·7	28	0	31	56·7	-1·6	53·6	+0·3
p Stonyhurst	375	63	27th	42	26th	58·7	48·1	53·0	- 4·6	6	0·59	15	- 6	Stonyhurst ..	4·6	- 1·4	27	0	37	•	•	•	•
p Blackpool	66	61	22, 25	41	26th	59·6	49·6	54·3	- 3·7	5	0·38	10	- 5	Blackpool ..	4·8	- 2·4	28	0	38	57·0	—	52·7	—
a Southport	37	59	22, 25, 28	41	26th	57·9	49·1	53·2	- 5·1	4	0·21	5	- 10	Southport ..	4·6	- 2·4	27	0	33	59·6	-2·0	58·4	+0·2
														Hoylake ..	3·8	- 2·7	23	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	59	22, 27	44	26th	57·7	48·9	53·0	- 5·9	4	0·28	7	- 8	Liverpool ..	3·3	—	20	0	39	•	•	•	•
a Hawarden Bridge ..	22	62	22, 27, 28	46	26th	59·9	49·9	54·6	- 4·9	2	0·24	6	- 7	Manchester(City)	3·9	- 1·3	23	0	37	57·4	-1·4	58·1	+2·0
p Manchester (Whit. Pk.)	125	61	22, 24, 27	42	22nd	59·3	47·6	53·0	- 6·7	5	0·36	9	- 9	Whitworth Park	3·3	- 2·0	20	•	•	•	•	•	•
b NORTH WALES.																							
p Llandudno	16	61	27th	45	22nd	58·7	49·4	53·7	- 5·3	5	0·30	8	- 6	Llandudno ..	3·2	- 3·7	19	•	•	•	•	•	•
a Holyhead ..	15	62	27th	47	25th	58·9	49·6	53·9	- 3·5	4	0·25	6	- 9	Holyhead ..	3 7	—	22	0	41	•	•	•	•
a Beddgelert	309	64	28th	40	22nd	58·4	47·1	52·4	—	7	1·50	38	—	Aberdovey ..	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature					
		Hi. best.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.			Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.	°F.
8. *a.* SOUTH WALES.																							
a Aberystwyth	59	60	27th	45	26th	57·9	48·9	53·1	—	4	0·23	6	—	Aberystwyth ..	3·1	– 3·5	19	•	•	•	•	•	•
a Rhayader	757	63	27th	40	22nd	58·3	45·6	51·5	—	5	0·26	7	—	Rhayader ..	4·0	—	24	1	27	•	•	•	•
a St. Ann's Head ..	140	61	27th	47	26th	57·9	50·4	53·9	– 3·2	2	0·43	11	– 1	St. Ann's Head	6·0	– 1·5	37	•	•	•	•	•	•
p Cardiff	20?	66	27, 28	43	22nd	63·1	47·9	55·0	– 4·0	2	0·15	4	– 12	Cardiff	5·7	—	35	0	35	58·7	–1·9	56·3	–0·3
b, ENGLAND, S.W.																							
a Bath	88	69	28th	40	22nd	64·7	48·1	55·8	– 3·8	1	0·07	2	– 11	Bath	•	•	•	—	—	61·0	—	58·6	—
a Shaftesbury	722	64	22, 28	42	26, 27	60·9	45·7	52·8	– 5·4	1	0·17	4	– 10	Shaftesbury ..	•	•	•	•	•	57·7	—	56·1	—
a Arlington	613	65	28th	40	22nd	60·3	47·4	53·4	– 3·9	3	0·40	10	– 10										
a Newquay	190	63	22, 28	40	22, 23	59·9	48 0	53·5	– 4·9	1	0·24	6	– 6	Newquay ..	5·1	– 2·4	32	0	36	59·6	—	56·1	—
a Cullompton	202	70	22nd	38	22nd	65·3	47·6	55·8	– 3·5	3	0·63	16	+ 3	Cullompton ..	5·1	– 1·6	31	0	34	61·3	•	•	•
a Portland Bill	19	62	22, 23, 28	49	26, 27	61·0	50·7	55·5	– 3·0	2	0·08	2	– 7	Weymouth ..	5·6	—	35	•	•	•	•	•	•
p Plymouth	116	69	28th	46	22nd	62·0	49·9	55·5	– 4·1	3	0·35	9	– 5	Plymouth ..	6·6	– 0·9	41	0	39	59·7	–2·0	57·2	—
a Falmouth	167	68	28th	45	22nd	62·7	50·0	55·9	– 3·0	3	0·22	6	– 8	Falmouth ..	7·1	– 0·8	44	0	39	61·3	—	59·4	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	57	22nd	48	23, 25, 26	54·3	49·3	51·6	– 4·1	7	0·31	8	– 6	Malin Head ..	3·5	—	20	•	•	•	•	•	•
a Blacksod Point ..	327	58	27th	45	26th	56·0	48·3	51·9	– 5·1	3	0·44	11	– 6	Markree Castle	3·1	– 1·5	18	0	34	58·1	–1·1	54·0	–0·5
p Markree Castle ..	122	63	27th	44	26th	59·4	48 7	53·7	– 2·6	5	0·64	16	– 3										
b, East .. { *p* Armagh	196	68	27th	42	26th	62·1	46·7	53·9	– 3·2	4	0·25	6	– 10	Armagh	3·5	– 1·3	21	0	31	57·2	–1·4	54·1	–0·8
a Donaghadee	101	62	22, 27	46	22nd	58·6	48·7	53·3	– 3·2	4	0·28	7	– 8										
10. IRELAND, S.																							
p Dublin, City	47	64	22, 27	45	26th	61·1	49·6	55·0	– 4·3	4	0·75	19	+ 7	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
a Birr Castle	175	67	27th	36	26th	61·4	47·1	53·8	– 4·0	3	0·55	14	0	Phœnix Park ..	3·8	– 2·0	23	0	34	•	•	•	•
a Kilkenny	212	65	27th	42	26th	61·9	49·1	55·1	– 3·1	2	0·45	11	– 3	Dublin City ..	•	•	•	0	41	•	•	•	•
a Waterford	120	64	27th	43	26th	61·1	49·6	55·0	– 3·9	2	0·32	8	– 7	Birr Castle ..	4·3	– 0·7	26	0	39	•	•	•	•
p Seskin, Carrick-on-Suir	541	64	24, 27	42	22, 26	61·9	46·7	53·8	—	3	0·26	7	—	Seskin	5·2	—	31	0	37	•	•	•	•
a Cahir	198	66	22, 27	44	22, 26	63·0	49·3	55·7	– 2·5	1	0·10	3	—										
a Foynes	50	61	22, 26, 27	43	26th	58·9	50·3	54·3	– 4·0	4	0·24	6	– 9										
a Cahirciveen (Val. Obs.)	30	60	25th	46	26th	58·1	51·6	54·6	– 3·4	2	0·20	5	– 13	Cahirciveen ..	2·5	– 3·1	15	—	—	•	•	•	•
a Killarney	174	66	26th	43	26th	62·6	51·3	56·6	– 1·8	4	0·18	5	– 11	Ballinacurra ..	5·4	– 0·6	33	•	•	•	•	•	•
a Roche's Point	32	67	27th	47	26th	62·9	51·1	56·6	– 1·6	4	0·10	3	– 12										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	63	27, 28	48	27th	60·6	50·7	55·3	– 3·5	3	0·21	5	– 3	Scilly	5·6	– 2·6	35	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	65	22, 28	46	22nd	61·7	50·6	55·8	– 4·7	2	0·39	10	+ 1	St. Heliers ..	6·6	– 2·1	41	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	67	28th	49	22, 26, 27	61·6	50·7	55·8	– 4·3	2	0·30	8	– 1	Guernsey† ..	8·0	– 0·9	50	0	43	60·9	–1·0	58·9	+0·3

†The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, June 28th, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time. day.	hr.	Highest Gust. Speed.	Date d.	h.	m.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m./s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	24, 25	15	10	9	44	0	337	13	25	15	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	13	121	34	0	326	6	25	13	17	25	13	5
Aberdeen	153	105	52	—	—	23, 28	7	74	60	27	0	293	11	28	19	20	23	12	10
Edinburgh	486	39	31	—	—	23, 28	12	96	49	11	0	270	13	23	10	20	23	12	40
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	23, 24, 28	22	75	50	21	0	{ 290 / 310	13	23	12 / 5	24	23	11	45
Paisley	188	81	15	—	—	23	4	69	83	12	0	315	13	23	18	24	23	18	20
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	56	82	30	0	337	10	26	8	18	26	8	30
South Shields	272	61	12	—	—	23, 28	22	83	55	8	0	293	14	23	14	22	23	15	10
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	—	—	79	88	1	0	—	10	26	12	16	26	10	55
Shoeburyness	103	90	‡	—	—	—	—	102	66	0	0	281	11	23	22	20	23	17	25
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	48	91	29	0	315	8	24	9	17	23	17	40
5. ENGLAND, S.E.																			
Brighton	261	53	8	—	—	—	—	43	98	27	0	—	9	24	5	17	24	3	35
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	23, 24, 26, 28	21	78	60	9	0	270	14	28	13	18	28	17	20
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	16	115	34	3	248	7	28	{ 15 / 17 }	16	23	19	50
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	29	78	61	0	225	10	28	11	15	28	14	25
Fleetwood (Cup Anr.) ..	109	44	—	23, 24, 28	25	22 to 28	48	59	34	2	0	304	22	23	21	—	—	—	—
Southport	80	62	48	23, 24	14	22 to 25, 28	62	68	24	0	0	304	21	23	21	28	23	19	50
Holyhead	60	40	‡	—	—	22 to 26, 28	34	97	26	11	0	304	16	23	24	20	23	19	30
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	22 to 24, 26, 28	12	112	38	6	0	360	13	26	16	20	26	16	0
Plymouth	185	88	2	—	—	—	—	38	81	49	0	—	8	26	17	16	23	15	20
Lyme Regis (Rousdon)	600	65	30*	—	—	—	—	10	110	48	0	—	7	24	1	14	23	19	15
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	23, 24, 27, 28	47	95	22	4	0	270	16	28	9	—	—	—	—
Quilty	100	40	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cahirciveen (Val. Obs.)	98	41	‡	—	—	23	4	114	46	4	0	340	11	23	15	17	23	21	10
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	23 to 25	13	88	60	7	0	337	13	24	1	17	23	21	25

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.

* Above tops of trees

** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

TWENTY-SIXTH WEEK of 1919—June 22nd to June 28th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	66	38	86·5	80·7	83·4	− 2·0	62	− 23	0	0	5	+ 1	0·66	17	0	4·3	−0·2	24	1015
Eastern.																			
1. SCOTLAND, EAST ...	69	37	88·1	80·3	83·9	− 2·4	68	− 29	0	0	5	+ 2	0·39	10	− 2	5·6	−0·5	32	1015
2. ENGLAND, N.E.	68	39	88·7	80·9	84·5	− 2·8	75	− 35	0	0	5	+ 2	0·34	9	− 3	3·4	−3·0	20	1016
3. ENGLAND, EAST ...	71	34	89·2	81·1	84·9	− 3·5	80	− 44	0	0	3	0	0·23	6	− 5	3·6	−3·7	22	1018
4. MIDLAND COUNTIES ...	72	36	89·8	81·1	85·1	− 3·0	83	− 37	0	0	4	+ 1	0·20	5	− 9	4·0	−2·5	24	1019
5. ENGLAND, S.E.	73	35	90·4	81·8	85·8	− 2·8	91	− 35	0	0	2	0	0·08	2	− 8	4·8	−3·1	29	1019
Western.																			
6. SCOTLAND, WEST ...	65	34	87·8	80·9	84·1	− 2·6	70	− 32	0	0	5	+ 1	0·36	9	− 8	5·8	−0·2	34	1017
7. ENGLAND, N.W.	63	37	87·9	81·9	84·7	− 2·7	77	− 35	0	0	4	+ 1	0·32	8	− 9	4·2	−2·1	25	1020
8. ENGLAND, S.W.	70	38	89·4	82·1	85·5	− 2·2	88	− 28	0	0	3	0	0·28	7	− 8	5·3	−1·8	32	1022
9. IRELAND, NORTH ...	68	36	87·8	81·9	84·7	− 2·0	77	− 26	0	0	4	0	0·41	10	− 7	3·3	−1·4	20	1021
10. IRELAND, SOUTH ...	67	36	89·2	82·9	85·8	− 1·8	92	− 22	0	0	3	− 1	0·32	8	− 7	4·0	−1·5	24	1025
11. ENGLISH CHANNEL ...	67	46	89·3	83·4	86·1	− 2·2	95	− 31	0	0	2	− 1	0·30	8	− 1	6·7	−1·9	42	1024

THE SEASON (Summer).—Aggregates, &c., for the Period of 4 Weeks, June 1st to June 28th, 1919.

0. SCOTLAND, NORTH ...	67	38	87·3	81·1	83·9	− 0·6	274	− 29	0	− 1	21	+ 6	3·95	100	+ 36	4·7	−0·4	27	1015
Eastern.																			
1. SCOTLAND, EAST ...	78	29	89·9	81·1	85·1	− 0·1	333	− 6	0	0	16	+ 3	1·62	42	− 8	6·0	0·0	35	1016
2. ENGLAND, N.E.	84	39	91·9	82·3	86·8	+ 0·7	414	+ 38	0	0	13	+ 1	0·78	20	− 27	6·5	+0·3	39	1019
3. ENGLAND, EAST ...	84	32	92·5	82·4	87·1	0·0	432	+ 3	0	0	7	− 5	1·04	27	− 20	7·6	+0·8	46	1020
4. MIDLAND COUNTIES ...	84	35	91·6	82·4	87·3	+ 0·4	442	+ 20	0	0	11	− 1	0·87	22	− 30	6·9	+0·7	42	1020
5. ENGLAND, S.E.	82	35	92·6	82·7	87·3	− 0·1	439	− 8	0	0	7	− 4	0·76	19	− 26	7·6	+0·4	48	1021
Western.																			
6. SCOTLAND, WEST ...	76	34	89·1	81·7	85·2	− 0·7	334	− 41	0	0	19	+ 5	4·26	108	+ 40	6·4	−0·1	37	1018
7. ENGLAND, N.W.	83	36	90·4	82·9	86·3	− 0·2	391	− 9	0	0	13	0	1·43	36	− 21	6·7	+0·2	40	1020
8. ENGLAND, S.W.	81	35	91·0	82·8	86·6	− 0·3	406	− 14	0	0	9	− 4	1·18	29	− 28	7·0	+0·2	43	1022
9. IRELAND, NORTH ...	73	36	88·8	81·9	85·1	− 0·8	330	− 42	0	0	18	+ 2	3·41	86	+ 21	4·9	−0·6	29	1019
10. IRELAND, SOUTH ...	79	36	90·4	82·8	86·3	− 0·5	391	− 25	0	0	13	− 1	2·11	53	− 9	5·6	−0·3	34	1023
11. ENGLISH CHANNEL ...	80	46	90·7	84·2	87·2	− 0·2	437	− 12	0	0	6	− 6	0·67	17	− 25	7·7	−0·2	48	1024

THE YEAR 1919.—Aggregates, &c., for the Period of 26 Weeks, December 29th, 1918, to June 28th, 1919.

0. SCOTLAND, NORTH ...	78	11	81·6	75·5	78·5	− 0·7	665	− 80	680	+ 141	113	− 6	19·58	498	− 96	3·7	+0·3	29	1011
Eastern.																			
1. SCOTLAND, EAST ...	78	5	82·2	74·9	78·4	− 0·9	756	− 97	787	+ 170	97	− 4	12·96	333	− 10	3·8	−0·2	30	1011
2. ENGLAND, N.E.	84	11	83·2	76·3	79·6	− 0·4	926	− 23	578	+ 106	97	+ 5	11·67	297	+ 28	4·0	−0·3	32	1012
3. ENGLAND, EAST ...	84	10	83·8	76·3	80.0	− 0·4	1035	− 92	580	+ 86	89	− 1	11·82	303	+ 40	4·3	−0·3	35	1013
4. MIDLAND COUNTIES ...	84	9	83·7	76·1	79·9	− 0·5	1061	− 83	628	+ 106	90	+ 1	14·16	360	+ 60	4·0	−0·1	32	1013
5. ENGLAND, S.E.	82	16	84·3	77·1	80·6	− 0·5	1146	− 71	451	+ 72	90	+ 3	14·62	370	+ 76	4·4	−0·3	35	1013
Western.																			
6. SCOTLAND WEST ...	83	14	83·0	76·4	79·6	− 0·6	862	−103	539	+ 123	105	− 3	19·07	484	− 41	4·0	−0·1	32	1012
7. ENGLAND, N.W.	83	16	83·2	76·9	80·0	− 0·5	953	− 72	494	+ 112	96	0	14·36	366	− 10	4·1	−0·1	33	1012
8. ENGLAND, S.W.	81	15	83·9	77·3	80·5	− 0·6	1052	−116	409	+ 108	98	+ 2	19·48	496	+ 75	4·5	0·0	36	1013
9. IRELAND, NORTH ...	76	22	83·4	76·9	80·1	− 0·5	910	−115	437	+ 97	118	+ 1	16·58	417	− 13	3·9	0·0	32	1011
10. IRELAND, SOUTH ...	80	22	84·3	77·7	80·9	− 0·6	1092	−136	362	+ 102	112	+ 8	17·02	434	− 24	4·0	−0·3	32	1013
11. ENGLISH CHANNEL ...	80	26	84·7	79·5	82·0	− 0·4	1268	−104	137	+ 32	103	+ 2	20·66	523	+176	4·8	−0·6	39	1014
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	h.m

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: July 4th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1: 37, PETER STREET MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN

FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 27.

THE TWENTY-SEVENTH WEEK OF 1919.
SUNDAY, JUNE 29TH, TO SATURDAY, JULY 5TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

An anticyclonic system over the Atlantic remained stationary, while a depression, which was centred over Scandinavia on Sunday and which moved southwards during the week, was the dominating factor in the weather over the British Isles. Cloudy skies with frequent rain prevailed, while thunderstorms, accompanied in some places by hail but generally without heavy rain, occurred over the greater part of Ireland and England between Wednesday and Friday. Mean temperature was below the normal in all Districts, the greatest deficit, about 3·5 a., being shown over the Eastern half of England, and the smallest, about 2 a., over Ireland. Generally, the warmest day was Saturday, when maxima of about 295 a. were recorded at several places in the southern districts of England and Ireland. Over Scotland and England N.E. on the 29th June and again on the 4th July, the maxima were very low, about 283 a., and at Glencarron (Ross-shire) and Balmoral on the former day it was no higher than 281 a. Rainfall was below normal in Scotland and Ireland, and equal to it in England S.W., but in all other parts of England and Wales the totals were generally about double the normal. Rainfall was very evenly distributed and was "much appreciated in gardens." Heavy downpours were reported on Tuesday at Catterick in Yorkshire and on Saturday in the neighbourhood of Ascot, where much damage was done to the railway. Bright sunshine was more than the normal in Ireland and also in England S.W., but over England as a whole there was a deficiency of about 4¼ hours per day. At Newquay and Falmouth 9¼ hours per day were recorded as against 0·5 hour per day at Birmingham. A solar halo was observed at Tenbury on the 2nd July and a sun-pillar at Oxford on the 3rd.

Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E. Shoeburyness.†		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day.	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	1	0·9	3	1·2	10	3·0	8	1·7	0	—	0	—	1	1·7	0	—
North	24	6·0	22	4·0	14	2·8	11	2·2	26	6·7	28	4·1	24	5·1	25	6·1
West	13	9·6	8	6·3	21	4·1	21	2·8	16	5·5	22	3·7	14	7·2	16	3·0
East	9	2·2	19	3·2	6	3·9	3	1·9	13	4·8	4	2·2	10	3·9	8	2·1
Calm	1	—	0	—	1	—	4	—	0	—	0	—	2	—	3	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c., is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient
	Rainfall ...	Light	Moderate	Heavy	Heavy	Heavy	Heavy	Light	Moderate	Moderate	Heavy	Heavy	Heavy
	Sunshine ...	Scanty	Scanty	Very scanty	Very scanty	Very scanty	Very scanty	Moderate	Very scanty	Moderate	Abundant	Abundant	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SUMMER. 5 weeks from June 1st, 1919.	Warmth ...	0, 2, 3	1, 2, 2	3, 0, 2	2, 1, 2	2, 1, 2	1, 2, 2	1, 1, 3	2, 0, 3	1, 1, 3	1, 0, 4	1, 0, 4	1, 2, 2
	Rainfall ...	3, 1, 1	0, 5, 0	1, 1, 3	2, 1, 2	1, 2, 2	1, 1, 3	2, 1, 2	0, 3, 2	0, 4, 1	1, 3, 1	1, 3, 1	1, 2, 2
	Sunshine ...	1, 2, 2	1, 2, 2	1, 2, 2	2, 1, 2	2, 1, 2	2, 1, 2	1, 3, 1	1, 2, 2	1, 3, 1	1, 3, 1	2, 2, 1	0, 3, 2

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour

(24136—19.) Wt 162—833/512. 625 7/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

['TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of R in Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft	
						Of Daily Max.	Of Daily Min.	Daily Mean.										Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																							
a, Islands .. *a* Lerwick	54	62	2nd	44	29, 30	54·7	46·0	50·1	- 1·9	3	0·43	11	- 2										
a Houton Bay, Orkney	520	56	1st	42	29, 1	52·0	43·4	47·4	—	5	0·41	10	- 4	Houton Bay ..	2·2	- 2·3	12	*	*	*	*	*	*
a Stornoway	31	60	2nd	44	30th	53·7	46·7	50·0	- 4·1	2	0·31	8	- 9	Stornoway ..	4·1	- 0·7	23	*	*	*	*	*	*
a Castlebay, Barra I. ..	37	63	3rd	47	29, 30, 5	57·3	48·7	52·7	—	3	0·16	4	—	Castlebay ..	7·3	—	42	*	*	*	*	*	*
b, Main-land. *a* Wick	81	56	1st	44	30th	52·3	45·7	48·8	- 5·0	4	0·57	14	- 1										
a Strathpeffer	125	64	2nd	42	1st	60·3	46·0	52·7	- 3·7	3	0·22	6	- 8										
p Glencarron	500	66	4th	41	1st	58·3	43·6	50·4	- 4·0	3	0·99	25	- 5										
a Fort Augustus..	68	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William	171	67	2nd	43	1st	60·4	46·1	52·8	- 4·0	2	0·07	2	- 25										
1. SCOTLAND, E.																							
a Nairn	82	61	1st	40	1st	55·9	46·1	50·7	- 5·4	4	0·44	11	- 3	Nairn	3·7	—	21	*	*	*	*	*	*
p Gordon Castle	101	59	2nd	42	1st	53·9	45·9	49·6	- 6·6	4	0·90	23	+ 6	Gordon Castle..	2·1	—	12	*	*	*	*	*	*
a Aberdeen	46	61	1st	44	30th	57·0	47·4	51·9	- 4·0	5	0·46	12	- 3	Aberdeen ..	4·0	- 1·3	23	0	39	*	*	51·9	-0·1
a Balmoral	930	59	3-5	39	30th	55·3	42·9	48·7	- 5·5	4	0·72	18	+ 4	Balmoral ..	*	*	*	0	37	*	*	*	*
p Crieff	432	65	1st	43	4th	60·6	46·0	52·8	- 4·9	2	0·20	5	- 12	Crathes	3·1	- 2·1	18	0	42	55·7	-1·8	52·9	-0·2
a Dundee	244	65	3rd	44	29th	62 0	46·7	53·8	- 3·9	1	0·17	4	- 11	Dundee	6·1	—	35	0	42	55·9	*	*	*
a Leith	30	61	1st	44	30th	56·1	47·7	51·6	- 6·4	3	0·24	6	- 8	Leith	—	—	—	0	40	*	*	*	*
p Edinburgh	441	61	1st	43	30th	53·9	45·9	49·6	- 6·6	4	0·36	9	- 5	Edinburgh ..	2·8	- 2·7	16	0	35	*	*	*	*
a West Linton	769	59	1st	39	30th	54·1	43·3	48·3	- 6·0	6	0·55	14	—	West Linton ..	3·1	—	18	0	33	*	*	*	*
p Marchmont	498	58	3rd	41	30th	53·7	44·1	48·6	- 7·4	6	0·49	12	- 5	Marchmont .	1·9	- 3·6	11	*	*	*	*	*	*
6. *a*, SCOTLAND, W.																							
a Ford (Argyll)	149	66	5th	37	1, 2	61·9	42·6	51·6	—	4	0·08	2	—	Ford (Argyll) ..	*	*	*	1	29	55·9	—	52·9	—
p Glasgow Observatory	180	67	1st	45	30th	60·0	48·7	54·0	- 3·4	3	0·15	4	- 11	Glasgow.. ..	4·4	- 0·7	26	0	35	*	*	*	*
p Rothesay	200	66	1st	44	29, 30	59·3	46·9	52·7	- 4·3	3	0·11	3	- 17	Rothesay ..	5·0	—	29	0	39	55·3	—	53·0	-1·3
a Kilmarnock	90	68	1st	37	1st	62·3	46·7	54·0	- 2·5	3	0·21	5	- 11	Kilmarnock ..	5·1	—	30	*	*	55·1	—	52·4	—
a Colmonell	170	65	2nd	38	1st	61·6	46·4	53·5	- 2·4	2	0·22	6	- 10	Colmonell ..	*	*	*	0	35	*	*	*	*
p Cally, Gatehouse ..	120	68	1st	44	30th	63·3	48·3	55·3	- 1·1	3	0·10	3	- 15	Dumfries ..	5·6	—	33	0	36	54·8	-5·8	53·1	-4·3
p Dumfries	160	63	1st	43	1st	59·7	47·3	53·1	- 5·2	2	0·11	3	- 12	Eskdalemuir ..	4·4	—	26	0	38	*	*	*	*
a Eskdalemuir	794	59	1st	41	30th	55·0	44·6	49·4	—	6	0·24	6	—										
b, I. OF MAN *p* Douglas	277	62	3rd	45	1st	57·7	47·7	52·4	- 4·4	5	0·87	22	+ 7	Douglas	7·7	+ 0·7	46	0	41	*	*	*	*
2. ENGLAND, N.E																							
a Ainwick Castle ..	210	58	2nd	45	29, 30	55·3	47·1	50·9	- 6·0	6	0·61	16	+ 2										
a Tynemouth	71	56	29th	42	30th	52·9	46·3	49·4	- 7·5	6	0·89	23	+ 11	Cockle Park ..	1·3	- 4·7	8	0	40	52·9	-4·7	52·6	-1·4
p Durham	338	63	29th	42	30th	56·6	46·3	51·1	- 6·7	6	1·44	37	+ 24	Durham ..	2·6	- 3·3	15	0	36	*	*	*	*
a North .. *p* Rounton	249	60	29th	42	30th	56·1	46·9	51·2	- 5·9	7	1·51	38	+ 23	Rounton ..	*	*	*	0	34	54·3	*	*	*
a West Witton	605	761	4th	43	30th	57·0	46·1	51·2	—	6	1·53	39	—	West Witton ..	*	*	*	0	39	53·9	—	51·8	—
p Scarborough	100	64	1st	50	3, 4	60·4	53·0	56·4	- 1·8	5	0·68	17	+ 5	Scarborough† ..	1·6	- 4·6	9	*	*	*	*	49·1	—
p York	56	65	4th	43	30th	60·1	47·7	53·5	- 6·2	5	1·23	31	+ 18	York	2·3	- 3·7	14	—	—	55·3	-3·3	54·2	-0·7
a Spurn Head	28	58	4th	45	30th	55·6	49·0	52·1	- 6·6	7	1·31	33	+ 24	Spurn Head ..	1·8	—	11	*	*	*	*	*	*
b, South .. *a* Lincoln	58	66	4th	42	30th	59·7	47·9	53·4	- 7·0	5	1·52	39	+ 27	Lincoln	*	*	*	0	39	55·1	-4·7	55·1	-0·5
a Fulbeck	180	65	4th	40	30th	60·3	46·9	53·1	- 6·6	6	1·19	30	+ 18	Fulbeck* ..	2·9	- 4·2	17	*	*	57·1	-4·7	55·7	-0·7
														Skegness ..	3·5	- 3·9	21	*	*	*	*	*	*
3. ENGLAND, E.																							
p Cromer	196	68	4th	45	30, 1	59·6	47 3	53·0	- 5·9	5	1·04	26	+ 15	Cromer	3·9	- 3·0	23	*	*	*	*	*	*
a Little Massingham ..	280	64	4th	40	30th	58·4	44 7	51·1	- 8·6	6	1·02	26	+ 14	Lit. Massingham	3·0	- 3·7	18	*	*	*	*	*	*
a Yarmouth	13	62	5th	43	30th	59·0	47 6	52·9	- 6·5	5	0·51	13	+ 3	Yarmouth ..	5·2	—	32	0	44	57·0	-6·0	56·4	-2·6
a Norwich	93	69	4th	43	30th	61·4	4,·6	54·0	- 6·1	5	0·63	16	+ 4	Norwich ..	4·3	—	26	0	39	56·6	*	*	*
a Geldeston	37	67	3-5	41	30th	62·0	45·6	53·2	- 6·5	5	0·48	12	+ 2	Geldeston ..	4·7	- 2·5	29	*	*	*	*	*	*
p Cambridge	41	66	4th	40	30th	60·7	44·7	52·1	- 8·6	6	0·93	24	+ 14	Cambridge ..	2·6	- 4·4	16	0	40	57·3	-4·4	56·2	-1·7
a Clacton-on-Sea ..	54	67	5th	45	30th	61·3	49·4	54·9	- 5·2	6	0·46	12	+ 3	Clacton	4·1	- 3·4	25	0	42	57·4	-2·9	56·6	-1·4
a Rothamsted	424	63	4th	43	4th	58·7	46·4	52·1	- 7·5	6	0·97	25	+ 14	Rothamsted ..	3·0	- 4·0	18	0	38	55·9	*	*	*
p Tottenham	51	68	5th	45	30th	62·0	49·3	55·2	—	5	0·86	22	—	Tottenham ..	2·6	—	16	0	42	*	*	53·6	-0·5
														S'thend-on-Sea	2·4	—	15	0	46	—	—	*	*
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	61	4th	39	30th	57·9	45·1	51·1	- 6·5	6	1·31	33	+ 20	Harrogate ..	2·8	- 3·8	17	0	32	53·5	-2·8	53·7	-0·6
p Sheffield	429	61	2nd	44	30th	57·4	47·7	52·2	—	5	1·61	41	—	Sheffield.. ..	2·8	- 3·6	17	0	39	54·9	-2·8	53·5	+0·3
p Buxton	987	58	2, 4, 5	43	30th	54·3	45·4	49·5	—	6	1·91	49	+ 31	Buxton	1·4	—	8	0	37	51·9	-5·8	52·8	-0·5
b, East .. *a* Bawtry	65	61	2nd	43	30th	58·1	47·4	52·4	- 7·4	5	1·05	27	+ 17	Worksop ..	2·7	- 3·1	16	0	37	55·7	—	54·4	—
a Nottingham	82	64	4th	43	30th	59 3	48·3	53·4	- 6·6	7	0·89	23	+ 12	Nottingham ..	1·6	- 4·7	10	0	36	54·0	-5·9	55·5	-0 7
p Birmingham, Edgbsn.	535	64	4th	45	30, 1	57·1	47·7	52·1	- 7·6	6	1·08	27	+ 16	Birmingham ..	0·5	- 4·8	3	0	42	51·5	-3·3	51·1	-0·3
a Raunds	203	69	4th	42	30th	61·1	45·9	53·0	- 7·6	7	0·67	17	+ 6	Raunds	2·6	—	16	1	30	57·3;	—	54·4	—
p Oxford	208	62	4, 5	45	2nd	59·4	47·9	53·3	- 7·6	5	0·74	19	+ 8	Oxford	2·8	- 4·2	17	0	40	*	*	*	*
														Malvern ..	1·9	—	12	0	40	57·4	—	57·4	—
a Cheadle (N. Staffs.) ..	646	61	4th	44	30th	56·9	47·1	51·7	- 6·4	5	1.32	34	+ 20	Cheadle	*	*	*	0	41	*	*	*	*
c, West .. *p* Tenbury	313	64	3, 4	46	30, 1	61·7	47·4	54·1	- 5·2	4	0·74	19	+ 15	Tenbury	*	*	*	0	42	56·9	—	—	—
p Ross-on-Wye	201	65	4th	45	1st	63·1	47·1	54·5	- 5·8	4	0·67	17	+ 7	Ross-on-Wye ..	2·2	—	13	0	41	—	—	—	—
a Clifton	229	67	5th	47	30, 1	60·9	48·3	54·2	- 7·7	4	1·11	28	+ 13	Clifton	3·3	—	20	0	46	*	*	*	*
5. ENGLAND, S.E.																							
a Marlborough	424	65	5th	39	4th	61·0	44·4	52·1	- 6·4	7	0·72	18	+ 5	Worthing ..	3·5	- 4·5	22	0	40	58·3	-4·9	56·9	-1·5
p Salisbury (Wilton) ..	180	72	5th	42	4th	63·7	45·9	54·2	- 6·4	4	1·14	29	+ 17	Marlborough ..	2·0	- 4·5	12	0	35	57·6	—	55·5	—
a Wisley, Surrey ..	150	67	5th	44	4th	61·7	47·0	53·8	- 6·7	6	0·81	21	+ 11	Salisbury ..	*	*	*	0	38	59·8	*	*	*
a Tunbridge Wells ..	354	69	5th	44	30th	62·4	47·6	54·5	- 7·7	5	0·73	19	+ 8	Wisley	3·0	- 4·2	18	0	33	57·4	-4·3	55·7	-2·0
a Margate	51	65	4th	48	1, 3	61·0	50·6	55·4	- 5·4	4	0·75	19	+ 9	Tunbridge Wells	2·3	- 5·0	14	0	36	57·6	-4·4	55·9	—
														Margate	2·2	- 4·6	13	0	45	60·3	-0·8	59·3	+1·9
a Dungeness	21	66	5th	44	30th	61·3	49·3	54·9	- 5·0	4	0·37	10	+ 1	Folkestone ..	3·2	—	20	*	*	*	*	52·5	—
p St. Leonards	178	66	5th	44	30, 1	60·7	48·9	54·4	- 5·8	4	0·18	5	- 6	St. Leonards ..	3·4	- 4·6	21	0	39	59·9	—	57·5	—
p Southampton	64	71	5th	45	2, 3	62·9	47·6	54·7	- 7·2	4	0·66	17	+ 6	Southampton ..	4·8	- 2·6	30	0	35	*	*	*	*
a Ventnor	59	62	29, 2, 4, 5	46	30th	61·9	49·6	54·9	- 5·8	4	0·68	17	+ 7	Ventnor	3·9	- 3·8	24	*	*	*	*	*	*
LONDON. *a* Richmond (Kew Obs.)	18	67	5th	45	30th	61·7	48·3	54·5	- 7·0	6	1·08	27	+ 16	Richmond	3·1	- 3·7	19	0	37	56·8	-4·2	55·2	-1·4
a Westminster	27	69	5th	45	30th	62·9	48·8	55·4	- 6·6	5	1·03	26	+ 15	Westminster ..	2·9	- 3·3	18	0	39	*	*	*	*
ag Greenwich	149	69	5th	45	30th	64·1	48·3	55·7	- 6·3	5	0·99	25	+ 12	Greenwich ..	3·2	- 4·0	20	0	34	*	*	*	*
a Hampstead	450	66	5th	43	30th	60·7	46·9	53·3	—	6	0·96	24	—	Hampstead ..	3·4	—	21	0	39	*	*	*	*
ag Camden Square ..	110	72	5th	44	30th	65·9	48·3	56·5	- 6·5	5	0·78	20	+ 8	Camden Square	2·8	- 3·3	17	0	40	*	*	*	*
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	59	2, 5	43	1st	56·0	46·1	50·7	- 6·7	4	0·86	22	+ 7	Aspatria.. ..	3·1	- 3·4	18	0	39	53·1	-6·6	52·1	-1·7
p Newton Rigg	559	63	29th	41	1st	59·0	45·0	51·5	- 5·9	4	0·54	14	+ 1	Newton Rigg ..	2·9	- 3·6	17	0	33	56·0	-3·1	53·7	-0·2
p Stonyhurst	375	62	5th	46	30, 1	58·1	48·7	53·1	- 4·8	5	0·82	21	+ 4	Stonyhurst ..	3·9	- 2·4	23	0	41	*	*	*	*
p Blackpool	66	65	5th	45	1st	60·0	49·1	54·2	- 4·2	5	0·82	21	+ 8	Blackpool ..	3·9	- 3·5	23	0	36	55·4	—	52·9	—
a Southport	37	65	5th	48	1st	58·6	49·9	54·0	- 4·6	6	0·80	20	+ 7	Southport ..	4·0	- 3·2	24	0	43	57·0	-5·4	57·4	-1·5
														Hoylake ..	1·9	- 4·9	11	*	*	*	*	*	*
a Liverpool (Bidston) ..	188	62	5th	47	1st	57·4	49·4	53·1	- 6·1	5	1·06	27	+ 15	Liverpool ..	2·0	—	12	0	45	*	*	*	*
a Hawarden Bridge ..	22	65	5th	48	30, 1	59·1	50·6	54·6	- 4·8	6	0·95	24	+ 14	Manchester(City)	3·8	- 1·4	23	0	40	55·9	-3·5	57·8	+3·1
p Manchester (Whit. Pk.)	125	64	5th	47	1st	59·0	49·7	54·0	- 6·0	6	0·61	15	0	Whitworth Park	2·7	- 2·7	16	*	*	*	*	*	*
b NORTH WALES.																							
p Llandudno	16	61	3, 5	47	30th	58·6	50·1	54·1	- 5·2	6	0·70	18	+ 7	Llandudno ..	2·7	- 4·3	16	*	*	*	*	*	*
a Holyhead	15	63	2nd	48	30, 1	58·7	50·4	54·3	- 3·4	3	0·48	12	0	Holyhead ..	5·3	—	32	0	47	*	*	*	*
a Beddgelert	309	62	5th	45	30th	58·7	48·1	53·0	—	6	1·98	50	—	Aberdovey ..	—	—	—	*	*	*	*	*	*
a Aberdovey	23	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rau ceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft		Earth 4 ft.	
						Of Daily Max.	Of Daily Min.	Daily Mean.										Ground Frosts.	Lowest Reading.	Mean.	Deviation from average.	Mean.	Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%	°F.		°F.	°F.	°F.	°F.
8. *a*, SOUTH WALES.																							
a Aberystwyth	59	65	5th	45	1st	57·4	49·3	53·1	—	4	0·31	8	—	Aberystwyth ..	6·5	- 0·2	40	*	*	*	*	*	*
a Rhayader	757	—	—	—	—	—	—	—	—	—	—	—	—	Rhayader ..	—	—	—	—	—	*	*	*	*
a St. Ann's Head ..	149	64	5th	48	29, 5	60·0	49·4	54·3	- 3·4	1	0·08	2	- 9	St. Ann's Head	8·7	+ 1·2	53	*	*	*	*	*	*
p Cardiff	202	66	4, 5	45	1st	61·7	46·9	53·8	- 5·8	4	0·87	22	+ 9	Cardiff	4·0	—	25	0	40	57·1	-4·0	56·0	-1·0
b, ENGLAND, S.W.																							
a Bath	66	‖66	4, 5	43	4th	63·6	47·9	55·2	- 5·1	5	0·97	25	+ 14	Bath	*	*	*	—	—	59·7	-2·0	58·1	+0·1
a Shaftesbury	722	68	5th	42	29th	61·4	45·1	52·7	- 7·6	4	0·78	20	+ 9	Shaftesbury ..	*	*	*	*	*	55·8	—	55·3	—
a Arlington	613	68	5th	43	5th	61·3	46·7	53·5	- 4·4	3	0·39	10	- 7										
a Newquay	190	62	5th	46	5th	59·4	50·0	54·4	- 4·7	2	0·48	12	+ 2	Newquay ..	9·2	+ 1·7	57	0	38	60·0	—	56·3	—
a Cullompton	202	73	5th	44	4th	64·9	47·1	55·4	- 4·5	4	0·26	7	- 5	Cullompton ..	4·4	- 2·3	27	0	38	60·3	*	*	*
a Portland Bill	19	64	5th	47	2nd	59·9	49·9	54·6	- 4·7	4	0·52	13	+ 6	Weymouth ..	5·1	—	32	*	*	*	*	*	*
p Plymouth	116	66	3rd	46	5th	61·7	49·1	55·0	- 5·3	4	0·35	9	- 3	Plymouth ..	7·7	+ 0·2	48	0	40	59·0	-3·8	56·9	—
a Falmouth	167	68	3rd	48	1, 2	63·0	50·0	56·1	- 3·5	1	0·26	7	- 5	Falmouth ..	9·3	+ 1·3	58	0	41	61·5	—	59·4	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	60	2, 5	47	30th	56·4	49·1	52·5	- 3·6	5	0·20	5	- 7	Malin Head ..	7·1	—	42	*	*	*	*	*	*
{ *a* Blacksod Point ..	327	59	4th	46	29th	56·9	49·9	53·2	- 4·2	3	0·09	2	- 12	Markree Castle	6·3	+ 1·4	37	0	38	59·1	-0·6	54·4	-0·6
{ *p* Markree Castle ..	122	66	3rd	45	3rd	61·0	48·1	54·1	- 2·6	3	0·45	11	- 4										
b, East .. { *p* Armagh	196	66	1st	42	1st	62·0	45·0	52·9	- 4·7	2	0·19	5	- 7	Armagh	7·5	+ 2·3	44	1	30	57·7	-1·8	54·5	-1·0
{ *a* Donaghadee	101	62	1st	46	30th	58·4	49·4	53·6	- 3·3	2	0·21	6	- 6										
10. IRELAND, S.																							
p Dublin, City	47	66	1st	45	30th	60·7	48·6	54·2	- 5·4	2	0·42	11	0	Trinity Coll. ..	*	*	*	—	—	—	—	—	—
a Birr Castle	175	65	2, 3	40	2nd	62·1	46·0	53·5	- 4·5	4	0·51	13	0	Phœnix Park ..	6·7	+ 0·8	40	0	35	*	*	*	*
a Kilkenny	212	66	1st	45	30, 2	62·6	47·0	54·3	- 4·3	3	0·29	7	- 6	Dublin City ..	*	*	*	0	42	*	*	*	*
a Waterford	120	67	1st	45	29th	63·0	47·0	54·4	- 4·8	2	0·60	15	+ 1	Birr Castle ..	5·7	+ 0·7	34	0	33	*	*	*	*
p Seskin, Carrick-on-Suir	541	69	3rd	44	29, 2	62·7	46·0	53·8	—	3	0·49	13	—	Seskin	6·0	—	37	0	41	*	*	*	*
a Cahir	198	70	3rd	43	2nd	64·0	50·1	56·6	- 1·9	4	0·66	17	—										
a Foynes	50	71	3rd	48	29th	63·4	50·6	56·6	- 1·9	6	0·43	11	- 3										
a Cahirciveen (Val. Obs.)	30	64	4th	47	4th	60·3	51·3	55·5	- 2·7	4	0·28	7	- 10	Cahirciveen ..	5·1	- 0·5	31	0	42	*	*	*	*
a Killarney	174	69	3rd	47	4th	65·1	50·1	57·1	- 1·5	5	0·55	14	- 1	Ballinacurra ..	7·4	+ 1·2	45	*	*	*	*	*	*
a Roche's Point	32	66	1st	49	2nd	62·7	50·6	56·2	- 2·3	4	0·47	12	- 1										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	62	3-5	49	1st	60·7	50·9	55·5	- 4·0	2	0·16	4	- 8	Scilly	7·8	- 0·1	47	*	*	*	*	*	*
a Jersey, St. Aubins ..	25	66	5th	50	2nd	61·1	52·6	56·6	- 4·6	4	1·18	30	+ 18	St. Heliers ..	4·3	- 4·2	27	*	*	*	*	*	*
a Guernsey (Villa Carey)	180	65	5th	48	5th	61·0	51·3	55·8	- 5·0	4	1·25	32	+ 20	Guernsey† ..	6·6	- 2·0	41	0	42	60·1	-2·4	58·7	-0·5

†The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, July 5th, 1919.

DISTRICT AND STATION.	Height.			Distribution of Wind.†								Extreme Velocities.							
	Above Mean Sea Level	Above Ground.	Above Building.	More than 17 m/s or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.			
				Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Veer from N.	Speed.	Mid Time.		Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	29, 30	2	28 to 30	55	44	59	8	0	304	18	30	2	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	36	120	12	0	315	9	30	2	21	29	15	25
Aberdeen	153	105	52	—	—	29, 30	34	36	92	6	0	304	15	30	4	24	30	4	40
Edinburgh	485	39	31	—	—	29	1	83	82	2	0	304	11	29	9	16	29	8	40
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	29, 30, 1	23	106	39	0	0	310	15	30	9	24	30	9	55
Paisley	188	81	15	—	—	—	—	52	92	24	0	315	11	29	23	21	30	8	55
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	60	99	9	0	349	11	1	10	19	30	7	10
South Shields	72	61	12	—	—	1	2	99	67	0	0	360	12	1	10	20	1	10	40
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	—	—	60	108	0	0	—	10	3	14	14	3	14	40
Shoeburyness	103	90	‡	—	—	—	—	68	91	9	0	304	11	29	18	18	29	18	0
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	24	116	28	0	315	9	29	17	17	29	19	20
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	36	106	26	0	—	7	29	15	13	29	21	25
S. Farnboro' (Pyestk Tr)	443	152	‡	—	—	Instrument under adjustment.		—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	29, 30, 3	4	88	71	5	0	290	12	29	17	15	29	17	5
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	7	104	57	0	304	7	29	15	13	30	12	20
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	6	75	87	0	337	7	1	13	13	1	12	40
Fleetwood (Cup Anr.) ..	109	44	—	29, 30	20	29, 30, 1, 3	36	87	24	1	0	315	20	29	16	—	—	—	—
Southport	80	62	48	29	8	29, 30, 1, 3	48	79	33	0	0	304	20	29	18	25	29	13	35
Holyhead	60	40	‡	—	—	29, 30, 1	41	105	22	0	0	315	15	30	4	21	29	18	5
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	1	2	86	73	7	0	360	12	1	10	17	1	16	15
Plymouth	185	88	2	—	—	—	—	28	91	49	0	—	8	29	17	16	29	17	40
Lyme Regis (Rousdon)	600	65	30*	—	—	—	—	5	106	57	0	—	7	29	16	17	29	15	35
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	29, 30	18	106	37	7	0	315	13	29	15	—	—	—	—
Quilty	100	40	‡	—	—	30	15	66	73	14	0	—	13	30	10	18	30	11	0
Cahirciveen (Val. Obs.)	98	41	‡	—	—	30	1	103	56	8	0	345	11	30	11	17	30	10	30
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	82	37	49	0	293	11	1	23	16	1	22	30

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.] * Above tops of trees
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

TWENTY-SEVENTH WEEK of 1919—June 29th to July 5th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			Mean Pressure at M.S.L.
	At any "D.-V." Station.		Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	Highest	Lowest	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.								
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	67	41	86·7	80·6	83·4	− 2·2	62	− 24	0	0	3	− 1	0·43	11	− 8	3·2	−1·1	18	1015
Eastern.																			
1. SCOTLAND, EAST ...	65	39	86·2	80·4	83·2	− 3·3	58	− 40	0	0	4	0	0·50	13	− 3	3·6	−1·7	21	1013
2. ENGLAND, N.E.	66	40	87·1	81·8	84·3	− 3·3	73	− 40	0	0	6	+ 3	1·15	29	+ 16	2·4	−4·1	14	1009
3. ENGLAND, EAST ...	69	40	88·7	81·3	84·8	− 3·7	78	− 47	0	0	5	+ 2	0·77	20	+ 9	3·6	−3·4	22	1009
4. MIDLAND COUNTIES ...	69	39	88·3	81·4	84·7	− 3·6	77	− 45	0	0	5	+ 2	0·96	24	+ 13	2·3	−4·2	14	1010
5. ENGLAND, S.E.	72	39	89·5	81·8	85·4	− 3·4	86	− 44	0	0	5	+ 2	0·71	18	+ 7	3·1	−4·3	19	1010
Western.																			
6. SCOTLAND, WEST ...	68	37	88·9	81·2	84·8	− 2·1	79	− 26	0	0	3	− 1	0·24	6	− 11	6·1	−0·1	36	1013
7. ENGLAND, N.W.	65	41	87·7	82·3	84·8	− 2·8	79	− 35	0	0	5	+ 2	0·76	19	+ 6	3·1	−3·6	18	1012
8. ENGLAND, S.W.	73	42	89·6	81·9	85·5	− 2·6	88	− 32	0	0	3	0	0·51	13	0	7·6	+0·5	47	1012
9. IRELAND, NORTH ...	66	40	88·3	81·8	84·8	− 2·1	79	− 26	0	0	3	− 1	0·28	7	− 6	6·9	+1·8	41	1015
10. IRELAND, SOUTH ...	71	40	90·1	82·4	86·0	− 1·8	94	− 22	0	0	4	+ 1	0·47	12	− 2	6·2	+0·6	38	1016
11. ENGLISH CHANNEL ...	66	48	89·1	83·9	86·3	− 2·4	98	− 30	0	0	3	0	0·86	22	+ 10	6·2	−2·1	39	1014

THE SEASON (Summer).—Aggregates, &c., for the Period of 5 Weeks, June 1st to July 5th, 1919.

0. SCOTLAND, NORTH ...	67	38	87·1	80·9	83·8	− 0·9	330	− 59	0	− 1	25	+ 6	4·68	119	+ 36	4·4	−0·5	25	1015
Eastern.																			
1. SCOTLAND, EAST ...	78	29	89·1	80·9	84·7	− 0·8	391	− 46	0	0	20	+ 3	2·12	55	− 11	5·5	−0·4	32	1015
2. ENGLAND, N.E.	84	39	90·9	82·2	86·3	− 0·1	487	− 2	0	0	19	+ 4	1·93	49	− 11	5·7	−0·5	34	1017
3. ENGLAND, EAST ...	84	32	91·8	82·2	86·7	− 0·7	510	− 44	0	0	12	− 3	1·81	47	− 11	6·8	−0·1	42	1018
4. MIDLAND COUNTIES ...	84	35	91·0	82·2	86·8	− 0·4	519	− 25	0	0	16	+ 1	1·83	46	− 17	6·0	−0·3	36	1018
5. ENGLAND, S.E.	82	35	92·0	82·5	86·9	− 0·8	525	− 52	0	0	12	− 2	1·47	37	− 19	6·7	−0·5	41	1019
Western.																			
6. SCOTLAND, WEST ...	76	34	89·1	81·6	85·1	− 1·0	413	− 67	0	0	22	+ 4	4·50	114	+ 29	6·3	0·0	37	1017
7. ENGLAND, N.W.	83	36	89·8	82·7	86·0	− 0·7	470	− 44	0	0	18	+ 2	2·19	55	− 15	6·0	−0·5	36	1018
8. ENGLAND, S.W.	81	35	90·7	82·6	86·4	− 0·7	494	− 46	0	0	12	− 4	1·69	42	− 28	7·2	+0·4	44	1020
9. IRELAND, NORTH ...	73	36	88·7	81·9	85·1	− 1·0	409	− 68	0	0	21	+ 1	3·69	93	+ 15	5·3	−0·1	32	1018
10. IRELAND, SOUTH ...	79	36	90·3	82·7	86·2	− 0·8	485	− 47	0	0	17	0	2·58	65	− 11	5·8	−0·1	35	1021
11. ENGLISH CHANNEL ...	80	46	90·4	84·2	87·0	− 0·7	535	− 42	0	0	9	− 6	1·53	39	− 15	7·4	−0·6	46	1022

THE YEAR 1919.—Aggregates, &c., for the Period of 27 Weeks, December 29th, 1918, to July 5th, 1919.

0. SCOTLAND, NORTH ...	78	11	81·8	75·7	78·7	− 0·7	721	−110	680	+ 141	117	− 6	20·31	517	− 96	3·7	+0·2	28	1011
Eastern.																			
1. SCOTLAND, EAST ...	78	5	82·3	75·1	78·6	− 0·9	814	−137	787	+ 170	101	− 4	13·46	346	− 13	3·8	−0·3	29	1011
2. ENGLAND, N.E.	84	11	83·4	76·5	79·8	− 0·4	999	− 63	578	+ 106	103	+ 8	12·82	326	+ 44	3·9	−0·5	31	1012
3. ENGLAND, EAST ...	84	10	84·0	76·5	80·1	− 0·6	1113	−139	580	+ 86	94	+ 1	12·59	323	+ 49	4·3	−0·4	34	1013
4. MIDLAND COUNTIES ...	84	9	83·9	76·3	80·1	− 0·6	1138	−128	628	+ 106	95	+ 3	15·12	384	+ 73	3·9	−0·3	31	1013
5. ENGLAND, S.E.	82	16	84·5	77·3	80·8	− 0·5	1232	−113	451	+ 72	95	+ 5	15·33	388	+ 83	4·3	−0·5	34	1013
Western.																			
6. SCOTLAND, WEST ...	83	14	83·2	76·5	79·8	− 0·6	941	−129	539	+ 123	108	− 4	19·31	490	− 52	4·1	−0·1	32	1012
7. ENGLAND, N.W.	83	16	83·4	77·1	80·2	− 0·6	1032	−107	494	+ 112	101	+ 2	15·12	385	− 4	4·1	−0·2	32	1012
8. ENGLAND, S.W.	81	15	84·1	77·5	80·7	− 0·7	1140	−148	409	+ 108	101	+ 2	19·99	509	+ 75	4·6	−0·1	36	1013
9. IRELAND, NORTH ...	76	22	83·6	77·1	80·2	− 0·7	989	−141	437	+ 97	121	0	16·86	424	− 19	4·0	0·0	32	1011
10. IRELAND, SOUTH ...	80	22	84·5	77·9	81·1	− 0·6	1186	−158	362	+ 102	116	+ 9	17·49	446	− 26	4·1	−0·3	33	1013
11. ENGLISH CHANNEL ...	80	26	84·9	79·7	82·2	− 0·4	1366	−134	137	+ 32	106	+ 2	21·52	545	+186	4·9	−0·6	39	1014
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F			inches.	mm.	mm.	hr.	hr.	%	h.m

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: July 11th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 28.

THE TWENTY-EIGHTH WEEK OF 1919.
SUNDAY, JULY 6TH, TO SATURDAY, JULY 12TH, 1919.

Price 6d., Post free 6½d.
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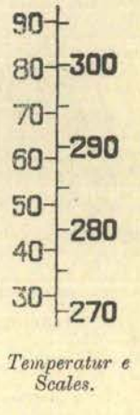
I.—GENERAL SUMMARY. [First published in 1878.]



Temperatur e Scales.

During the first half of the week an area of high pressure embraced the British Isles, but the later days were marked by a fall of the barometer, which spread down from Iceland, when the anticyclone withdrew to the Azores region. The winds which were variable and light or moderate at first became fresh or strong from North-West at the end of the week. Over England generally the highest of the maxima occurred on the 11th, when readings of about 300 a. were recorded in several districts; with the fresh North-Westerly breeze of Saturday was associated a considerable fall of temperature, the drop at many stations being as much as 8 a. or 9 a. Minima as low as 277 a. was registered about the middle of the week in most districts, the absolute lowest being 274 a. at Balmoral. Ground frost (readings of 272 a. or below) occurred at Crathes, Rounton, and Rhayader. The mean temperature of the week was below the normal in all districts, the greatest deficit being 3 a. in England East. Rainfall was below the normal in all districts except England East, where it was slightly in excess. The first four or five days were generally dry, Friday and Saturday being, as a rule, the only rain-days. There was a thunderstorm, however, over the Channel Isles on Monday, when 15mm. of rain fell in Guernsey. Bright sunshine was more than normal over Scotland generally, Ireland South, and England South-West, but less elsewhere; in England East the daily mean was only 3·3 hr. as compared with the normal of 6·8 hr. Solar halos were observed at Aberdeen on the 8th, and at many places in the Midland counties and in England South-East on the 9th and 10th.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E. Shoeburyness.†		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	7	2·4	13	1·8	7	1·3	0	—	1	4·4	3	2·2	2	2·3	0	—
North	19	3·3	5	1·9	17	3·0	21	2·1	25	3·6	21	4·9	18	2·7	21	4·1
West	21	4·4	13	5·9	8	2·5	4	1·1	14	2·3	12	2·4	16	5·0	15	2·3
East	2	2·3	7	2·0	15	2·2	14	1·6	9	3·2	11	3·2	5	2·1	5	0·9
Calm	1	—	8	—	3	—	7	—	1	—	0	—	6	—	7	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Deficient	Deficient	Very deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient
	Rainfall ...	Very light	Very light	Light	Heavy	Moderate	Moderate	Very light	Very light	Light	Very light	Light	Moderate
	Sunshine ...	Moderate	Very abundant	Scanty	Very scanty	Scanty	Very scanty	Abundant	Moderate	Abundant	Moderate	Abundant	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SUMMER. 6 weeks from June 1st, 1919.	Warmth ...	0, 3, 3	1, 2, 3	3, 0, 3	2, 1, 3	2, 1, 3	1, 2, 3	1, 1, 4	2, 0, 4	1, 1, 4	1, 0, 5	1, 0, 5	1, 2, 3
	Rainfall ...	3, 1, 2	0, 5, 1	1, 1, 4	3, 1, 2	1, 3, 2	1, 2, 3	2, 1, 3	0, 3, 3	0, 4, 2	1, 3, 2	1, 3, 2	1, 3, 2
	Sunshine ...	1, 3, 2	2, 2, 2	1, 2, 3	2, 1, 3	2, 1, 3	2, 1, 3	2, 3, 1	1, 3, 2	2, 3, 1	1, 4, 1	3, 2, 1	0, 3, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour

(24219—19.) Wt 162—833/512. 625. 7/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean	Earth 4 ft. Deviation from Average.
	Ft.	°F.		°F		°F.	°F.	°F.	°F		in	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.
0. SCOTLAND, N.																						
a, Islands.. a Lerwick	54	61	8th	44	7, 8	56·9	47·0	51·6	0·0	3	0·09	2	- 9									
a Houton Bay, Orkney	520	58	11th	42	7th	52·6	44·9	48·5	—	3	0·07	2	- 11	Houton Bay ..	3·5	- 1·3	20	•	•	•	•	•	•
a Stornoway	51	61	9th	45	7, 8	56·6	47·4	51·7	- 1·8	2	0·12	3	- 12	Stornoway ..	4·9	- 0·2	28	•	•	•	•	•	•
a Castlebay, Barra I.	37	57	6, 9	46	7th	56·1	48·6	52·1	—	4	0·11	3	—	Castlebay ..	4·8	—	28	•	•	•	•	•	•
b, Mainland. a Wick	81	66	10th	43	8th	57·3	46·6	51·6	- 1·8	1	0·02	0·4	- 13									
a Strathpeffer	125	70	9th	43	8th	64·1	48·9	56·0	+ 0·3	0	0·00	0	- 13									
p Glencarron	500	66	7th	41	12th	60·6	45·7	52·6	- 1·0	3	0·49	12	- 14									
a Fort Augustus..	88	—	—	—	—	—	—	—	—	-	—	—	—									
p Fort William ..	171	70	9th	44	7, 8	66·6	48·3	56·8	+ 0·8	3	0·20	5	- 19									
1. SCOTLAND, E.																						
a Nairn	82	73	10th	45	8, 9	64·0	48·1	55·5	- 0·8	2	0·02	0·4	- 15	Nairn ..	8·3	—	48	•	•	•	•	•	•
p Gordon Castle ..	101	74	10th	41	8th	62·7	47·4	54·5	- 1·8	2	0·05	1	- 17	Gordon Castle..	6·6	—	38	•	•	•	•	•	•
a Aberdeen	46	77	11th	46	7, 8	63·7	49·1	56·9	- 0·3	1	0·06	1	- 15	Aberdeen ..	7·0	+ 1·5	40	0	37	•	•	51·9	-0·8
a Balmoral	930	77	10th	34	8th	66·9	41·9	53·5	- 0·8	2	0·02	1	- 15	Balmoral ..	•	•	•	0	31	•	•	•	•
p Crieff	432	74	9, 10	42	8, 12	68·3	46·7	56·8	- 1·0	0	0·00	0	- 17	Crathes ..	7·6	+ 2·2	44	2	28	57·7	-0·5	53·2	-0·7
a Dundee	244	78	10th	37	8th	66 1	45·4	55·0	- 3·0	0	0·00	0	- 16	Dundee ..	9·2	—	54	0	33	57·6	•	•	•
a Leith	30	71	9, 10	46	8th	63·4	49·1	55·8	- 2·4	1	0·04	1	- 14	Leith ..	—	—	—	0	41	•	•	•	•
p Edinburgh	441	71	9, 10	44	8th	63·0	48·0	55·0	- 1·5	1	0·11	3	- 12	Edinburgh ..	7·5	+ 1·7	44	0	41	•	•	•	•
a West Linton	769	66	10th	40	8th	62·7	44·4	52·9	- 1·6	1	0·02	1	—	West Linton ..	6·1	—	36	0	35	•	•	•	•
p Marchmont	498	74	11th	40	8th	62·1	43·9	52·4	- 3·9	0	0·00	0	- 18	Marchmont .	6·5	+ 0·7	38						
6. a, SCOTLAND, W																						
a Ford (Argyll)	149	67	6th	44	9th	62·1	47·8	54·5	—	2	0·33	8	—	Ford (Argyll) ..	•	•	•	0	36	59·2	—	53·4	—
p Glasgow Observatory	180	72	8th	46	8th	65·9	50·1	57·5	0·0	0	0·01	0·2	- 20	Glasgow.. ..	8·9	+ 3·8	52	0	40	•	•	•	•
p Rothesay	200	66	8th	45	12th	61·7	48·9	54·9	- 2·2	3	0·11	3	- 22	Rothesay ..	5·6	—	33	0	40	58·3	—	53·4	-1·6
a Kilmarnock	90	67	8th	42	8th	64·4	48·6	56·0	- 0·6	2	0·07	2	- 18	Kilmarnock ..	6·2	—	37	•	•	57·6	—	52·6	—
a Colmonell	170	64	7, 8	41	8th	62·3	49·4	55·4	- 1·6	2	0·09	2	- 18	Colmonell ..	•	•	•	0	38	•	•	•	•
p Cally Gatehouse	120	73	10th	43	12th	65·4	45·7	54·9	- 1·6	1	0·01	0	- 22	Dumfries ..	6·4	—	38	0	39	57·8	-3·9	53·4	-4·8
p Dumfries	160	74	10th	44	8th	67·1	47·7	56·7	- 1·7	0	0·00	0	- 19	Eskdalemuir ..	6·4	—	38	0	33	•	•	•	•
a Eskdalemuir	794	71	9th	39	11th	64·4	41·9	52·4	—	1	0·04	1	—									
b, I. OF MAN p Douglas	277	65	11th	48	12th	60·7	50·4	55·2	- 1·8	1	0·12	3	- 16	Douglas ..	7·8	+ 0·7	47	0	44	•	•	•	•
2. ENGLAND, N.E.																						
a North .. a Alnwick Castle	210	73	11th	45	8, 9	61·7	47·0	53·8	- 3·8	1	0·02	1	- 13									
a Tynemouth	71	71	10th	46	7, 8, 9	59·4	47·6	53·1	- 4·5	0	0·00	0	- 12	Cockle Park ..	3·7	- 2·0	22	0	40	54·9	-3·3	52·3	-2·4
p Durham	336	77	10th	40	8th	63·6	46·3	54·4	- 4·1	1	0·09	2	- 11	Durham ..	4·5	- 1·0	27	0	32	•	•	•	•
p Rounton	249	78	11th	40	8, 9	63·3	46·0	54·1	- 3·7	2	0·30	8	- 7	Rounton ..	•	•	•	1	30	55·6	•	•	•
a West Witton	605	75	9, 10	40	8th	66·3	46·4	55·7	—	2	0·07	2	—	West Witton ..	•	•	•	0	38	55·4	—	51·1	—
p Scarborough	100	66	11th	48	8, 9	59·7	50·4	54·7	- 4·3	0	0·00	0	- 12	Scarborough† ..	3·8	- 2·0	23	•	•	•	•	50·2	•
p York	56	79	11th	47	8th	66·0	49·4	57·1	- 3·2	2	0·20	5	- 8	York	3·4	- 2·3	20	—	—	57·0	-2·2	54·1	-1·4
b, South .. a Spurn Head	26	63	10th	49	6, 8, 9	58 9	50·7	54·5	- 5·0	2	0·32	8	- 1	Spurn Head ..	1·0	—	6	•	•	•	•	•	•
a Lincoln	58	78	11th	47	8th	64·6	49·9	56·7	- 4·3	2	0·30	8	- 3	Lincoln	•	•	•	0	45	57·7	-2·6	54 9	-1·2
a Fulbeck	180	79	11th	43	8th	66·1	48·6	56·7	- 3·9	2	0·37	9	- 3	Fulbeck* ..	3·6	- 3·2	22	•	•	58·9	-3·7	56·0	-0·7
														Skegness ..	3·7	- 3·4	23	•	•	•	•	•	•
3. ENGLAND, E.																						
p Cromer	196	61	11th	47	10th	56·9	48·6	52·5	- 7·0	5	0·51	13	- 1	Cromer	1·0	- 5·8	6	•	•	•	•	•	•
a Little Massingham	280	71	11th	46	6, 8, 9	60·3	47 6	53·5	- 6·7	4	0·81	21	+ 6	Lit. Massingham	3·4	- 3·0	21	•	•	•	•	•	•
a Yarmouth	13	64	9, 10	49	10, 11	59·6	50·1	54·5	- 5·6	4	0·67	17	+ 4	Yarmouth ..	3·3	—	20	0	46	58·7	-5·1	56·1	-3·5
a Norwich	93	74	11th	46	11th	61·9	49·1	55·1	- 5·6	4	0·65	17	+ 2	Norwich ..	3·5	—	21	0	41	59·6	•	•	•
a Geldeston	37	71	11th	46	11th	63·4	4, ·9	55·1	- 5·2	3	0·72	18	+ 5	Geldeston ..	3·3	- 3·6	20	•	•	•	•	•	•
p Cambridge	41	73	9, 11	42	9th	64·6	47·9	55·7	- 5·5	2	0·68	17	+ 5	Cambridge ..	3·3	- 3·4	20	0	41	59·3	-3·1	56·0	-2·6
a Clacton-on-Sea	54	67	9th	49	8, 10	61·9	50·7	55·9	- 4·9	2	0·44	11	0	Clacton	3·3	- 3·9	20	0	47	59·1	-1·8	57·0	-1·6
a Rothamsted	424	75	11th	42	9th	63·7	48·4	55·5	- 4·6	2	0·47	12	- 1	Rothamsted ..	4·3	- 2·5	27	0	36	57·1	•	•	•
p Tottenham	51	78	11th	45	9th	66·1	51·7	58·4	—	2	0·35	9	—	Tottenham ..	4·3	—	27	0	42	•	•	58·1	-1·7
														S'thend-on-Sea	4·1	—	25	0	52	61·4	—	—	—
4. MIDLAND COUNTIES.																						
a North .. a Harrogate	479	74	10th	42	8th	64·0	46·1	54·4	- 3·5	2	0·17	4	- 11	Harrogate ..	4·3	- 1·7	26	0	39	54·9	-2·1	53·5	-1·4
p Sheffield	429	76	11th	47	7-9	64·3	49·1	56·2	—	2	0·19	5	—	Sheffield ..	3·8	- 2·1	23	0	38	55·5	—	53·0	—
p Buxton	987	67	10th	41	6th	61·1	45·7	52·9	—	2	0·11	3	- 19	Buxton	4·6	—	28	0	36	54·9	-3·3	53·1	-1·7
b, East .. a Bawtry	65	76	11th	43	9th	65·3	48·3	56·2	- 3·8	2	0·25	6	- 7	Worksop ..	3·5	- 1·8	21	0	37	57·4	—	54·4	—
a Nottingham	82	77	11th	44	9th	65·1	48·9	56·4	- 3·9	1	0·28	7	- 6	Nottingham ..	3·5	- 2·3	21	0	40	56·9	-3·5	55·1	-1·8
p Birmingham, Edgbsn.	535	73	11th	47	8th	66·3	49·7	57·4	- 2·6	1	0·26	7	- 6	Birmingham ..	4·1	- 0·8	25	0	34	53·9	-1·7	50·9	-1·0
a Raunds	203	79	11th	39	9th	66·7	47·3	56·3	- 4·8	1	0·65	17	+ 3	Raunds	4·0	—	25	0	32	57·9	—	54·6	—
p Oxford	208	78	11th	45	9th	68·1	49·3	58·1	- 3·2	2	0·56	14	+ 1	Oxford	5·6	- 0·9	35	0	39	•	•	•	•
														Malvern ..	8·4	—	52	0	42	59·8	—	57·0	—
c, West .. a Cheadle (N. Staffs.)	646	71	10, 11	44	6th	64·3	48·3	55·7	- 2·6	1	0·10	3	- 13	Cheadle	•	•	•	0	42	•	•	•	•
p Tenbury	313	80	11th	43	9, 10	71·4	48·0	58·9	- 0·7	1	0·60	15	+ 5	Tenbury	•	•	•	0	39	60·2	—	—	—
p Ross-on-Wye	201	80	11th	45	9th	71·3	48·7	59·2	- 1·4	2	0·48	12	0	Ross-on-Wye ..	7·9	—	49	0	42	—	•	•	•
a Clifton	226	74	11th	49	8th	69·1	51·9	59·9	- 2·3	1	0·19	5	- 13	Clifton	7·9	—	49	0	48	•	•	•	•
5. ENGLAND, S.E.																						
a Marlborough	424	78	11th	41	9th	67·6	47·0	56·6	- 2·6	3	0·53	13	0	Worthing ..	5·0	- 2·8	31	0	42	61·5	-2·2	56·9	-2·1
p Salisbury (Wilton)	180	78	11th	46	9th	70·6	50 4	59·8	- 1·6	3	0·47	12	0	Marlborough ..	6·2	- 0·1	39	0	37	60·0	—	55·5	—
a Wisley, Surrey	150	79	11th	39	9th	66·6	49 4	57·4	- 3·9	2	0·35	9	- 1	Salisbury ..	•	•	•	0	45	62·9	•	•	•
a Tunbridge Wells	354	76	11th	43	9th	65·6	50·0	57·3	- 3·7	2	0·55	14	+ 2	Wisley	4·8	- 2·2	30	0	31	58·9	-3·4	55·5	-2·9
a Margate	51	68	9th	51	7, 9, 10	61·0	52·6	56·5	- 5·3	2	0·38	10	0	Tunbridge Wells	3·1	- 4·0	19	0	36	58·8	- 4·1	56·1	—
														Margate	3·0	- 3·8	19	0	47	61·8	+0·1	59·0	+0·9
a Dungeness	21	67	10th	50	9th	63·1	52·1	57·2	- 3·5	1	0·28	7	- 3	Folkestone ..	3·1	—	19	•	•	•	•	52·9	—
p St. Leonards	178	71	11th	48	9th	63·7	52·3	57·6	- 3·4	1	0·16	4	- 8	St. Leonards ..	3·9	- 3·9	24	0	43	61·2	—	57·6	—
p Southampton	64	79	11th	48	9th	69·6	51·9	60·1	- 2·6	2	0·15	4	- 8	Southampton ..	5·4	- 1·9	34	0	39	•	•	•	•
a Ventnor	59	74	11th	50	9th	65 7	54·4	59·7	- 1·9	2	0·14	4	- 7	Ventnor	4·6	- 3·0	29	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	77	11th	44	9th	65·3	50·6	57·4	- 4·6	2	0·35	9	- 2	Richmond ..	4·3	- 2·6	27	0	36	59·0	-2·7	55·0	-2·1
a Westminster	27	79	11th	45	9th	67·1	51·6	58·8	- 4·0	2	0·39	10	- 2	Westminster ..	4·1	- 1·9	25	0	42	•	•	•	•
ag Greenwich	149	80	11th	43	9th	67·6	50·1	58·2	- 4·5	2	0·35	9	- 4	Greenwich ..	4·1	- 3·3	25	0	32	•	•	•	•
a Hampstead	450	77	11th	45	9th	64·9	49·7	56·8	—	2	0·38	10	—	Hampstead ..	4·6	—	29	0	36	•	•	•	•
ag Camden Square	110	82	11th	43	9th	69·4	51·7	59·9	- 3·9	2	0·38	10	- 3	Camden Square	4·5	- 1·4	28	0	43	•	•	•	•
7. a, ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	67	10th	43	8th	61·0	46·7	53·4	- 4·2	1	0·06	2	- 17	Aspatria.. ..	5·7	- 0·5	34	0	43	56·2	-4·3	52·1	-2·4
p Newton Rigg	559	75	9th	42	7, 8	67·4	45·0	55·4	- 2·4	1	0·02	1	- 15	Newton Rigg ..	7·2	+ 0·9	43	0	35	58·2	-1·7	53·8	-0·8
p Stonyhurst	375	67	8th	46	8th	62·7	48·7	55·2	- 3·0	1	0·11	3	- 18	Stonyhurst ..	4·2	- 1·9	25	0	41	•	•	•	•
p Blackpool	66	65	8th	45	6th	61·7	49·7	55·3	- 3·6	1	0·17	4	- 12	Blackpool ..	4·7	- 2·5	28	0	36	57·2	—	52·8	—
a Southport	37	65	8th	47	6, 7	60·9	50·1	55·1	- 3·9	1	0·15	4	- 12	Southport ..	4·1	- 2·9	25	0	40	60·2	-3·1	57·5	-2·2
														Hoylake ..	5·0	- 1·7	30	•	•	•	•	•	•
a Liverpool (Bidston)	188	64	8th	49	7, 8	60·0	51·1	55·2	- 4·4	1	0·12	3	- 11	Liverpool ..	4·6	—	28	0	42	•	•	•	•
a Hawarden Bridge	22	68	11th	48	7, 8	63·7	51·6	57·2	- 3·0	1	0·13	3	- 9	Manchester(City)	3·9	- 1·1	24	0	42	58·0	-2·2	57·3	-0·1
p Manchester (Whit. Pk.)	126	67	8, 10	45	8th	62·3	49·7	55·6	- 4·7	1	0·05	1	- 17	Whitworth Park	3·6	- 1·8	22	•	•	•	•	•	•
b, NORTH WALES.																						
p Llandudno	16	65	11th	47	7th	61·4	51·3	56·0	- 3·7	2	0·14	4	- 9	Llandudno ..	6·8	0·0	41	•	•	•	•	•	•
a Holyhead	15	67	7th	51	6, 10-12	62·6	51·6	56·7	- 1·3	1	0·20	5	- 9	Holyhead ..	7·5	—	46	0	42	•	•	•	•
a Beddgelert	309	67	8, 10	45	10th	64·6	49·0	56·3	—	2	0·24	6	—	Aberdovey ..	—	—	—	•	•	•	•	•	•
a Aberdovey	52	—	—	—	—	—	—	—	—	—	—	—	—									

† Earth temperature at 3 feet.

• Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest: Date	Lowest: Date	Mean for the Week: Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average.
	Ft.	°F.	°F.	°F.	°F.	°F.	°F.		in.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
8. *a.* SOUTH WALES.																				
a Aberystwyth	59	66 6th	51 10th	62·4	52·7	57·2	—	1	0·10	3	—	Aberystwyth	8·2	+ 2·1	51	*	*	*	*	*	*
a Rhayader	767	71 10, 11	41 10th	66·4	46·6	55·8	—	2	0·08	2	—	Rhayader	7·6	—	47	1	30	*	*	*	*
a St. Ann's Head	149	66 6th	49 12th	63·1	51·9	57·1	- 0·8	1	0·08	2	- 11	St. Ann's Head	9·3	+ 2·4	58	*	*	*	*	*	*
p Cardiff	202	75 9th	46 8th	68·6	50·4	58·9	- 0·9	1	0·20	5	- 11	Cardiff	8·8	—	55	0	41	60·9	-0·3	56·0	-1·5
b. ENGLAND, S.W.																					
a Bath	66	76 11th	44 8th	70·4	50·0	59·5	- 1·2	1	0·33	8	- 5	Bath	*	*	*	—	—	62·1	-0·7	58·1	-0·9
a Shaftesbury	722	75 11th	42 8th	66·4	49·0	57·1	- 2·3	2	0·44	11	- 3	Shaftesbury	*	*	*	*	*	60·1	—	55·7	—
a Arlington	613	68 10th	42 9th	65·0	49·0	56·4	- 1·7	1	0·23	6	- 15										
a Newquay	190	67 11th	48 7th	62·9	53·9	58·1	- 1·4	1	0·17	4	- 8	Newquay	5·9	- 1·0	37	0	43	61·7	—	56·8	—
a Cullompton	202	80 11th	43 10th	72·1	49·4	60·0	- 0·2	1	0·11	3	- 11	Cullompton	7·1	+ 0·9	44	0	37	63·1	*	*	*
a Portland Bill	19	68 9, 10	51 8th	64·3	53·4	58·5	- 1·2	1	0·08	2	- 7	Weymouth	6·6	—	41	*	*	*	*	*	*
p Plymouth	116	75 11th	51 10th	68·3	53·9	60·6	+ 0·1	2	0·09	2	- 13	Plymouth	7·8	+ 0·8	49	0	47	62·8	-0·6	57·1	—
a Falmouth	167	72 9th	52 7th	66·0	54·1	59·6	- 0·3	3	0·10	3	- 12	Falmouth	7·7	+ 0·2	48	0	44	63·7	—	60·1	—
9. IRELAND, N.																					
a West — *a* Malin Head	208	58 9, 10, 11	48 8th	56·6	50·0	53·1	- 3·0	2	0·02	1	- 15	Malin Head	4·2	—	25	*	*	*	*	*	*
a West — *a* Blacksod Point	327	61 9, 10	49 9th	58·9	51·1	54·7	- 2·6	3	0·09	2	- 16	Markree Castle	3·1	- 1·6	19	0	44	59·8	-0·7	55·0	-0·5
a West — *p* Markree Castle	122	64 7th	49 9, 12	60·6	50·6	55·3	- 1·4	3	0·10	3	- 17										
b. East — *p* Armagh	196	71 10th	42 9th	65·4	47·1	55·6	- 2·0	2	0·03	1	- 16	Armagh	5·1	+ 0·1	31	0	31	58·9	-1·7	55·1	-1·2
b. East — *a* Donaghadee	101	63 11th	46 12th	59·4	51·3	55·1	- 1·9	0	0·00	0	- 16										
10. IRELAND, S.																					
p Dublin, City	47	68 9th	47 6th	64·1	50·9	57·0	- 2·8	2	0·15	4	11	Trinity Coll.	*	*	*	—	—	—	—	—	—
a Birr Castle	175	69 8th	43 6th	64·6	46·7	55·0	- 3·1	2	0·13	3	14	Phœnix Park	5·7	- 0·1	35	0	31	*	*	*	*
a Kilkenny	212	70 8th	45 6, 8, 9	66·0	48·3	56·5	- 2·2	1	0·13	3	- 13	Dublin City	*	*	*	0	43	*	*	*	*
a Waterford	120	72 8th	47 6, 8, 12	66·6	48·9	57·1	- 2·2	1	0·14	4	- 14	Birr Castle	3·8	- 1·1	23	0	37	*	*	*	*
p Seskin, Carrick-on-Suir	541	71 8th	45 6, 12	65·7	48·4	56·5	—	2	0·13	3	—	Seskin	5·4	—	34	0	39	*	*	*	*
a Cahir	199	71 8th	48 7th	66·9	50·7	58·2	- 0·4	1	0·05	1	—										
a Foynes	50	66 8, 10	47 12th	63·9	52·0	57·5	- 1·0	2	0·05	1	- 17										
a Cahirciveen (Val. Obs.)	30	66 6th	47 9th	61·4	51·4	56·1	- 2·2	0	0·00	0	- 22	Cahirciveen	8·1	+ 2·7	50	0	42	*	*	*	*
a Killarney	174	67 9, 11	49 12th	65·9	51·9	58·4	- 0·3	1	0·01	0	- 19	Ballinacurra	8·1	+ 2·0	51	*	*	*	*	*	*
a Roche's Point	32	70 8th	51 6, 12	66·3	53·1	59·2	+ 0·6	1	0·02	1	- 15										
11. ENGLISH CHANNEL.																					
a Scilly, St. Mary's	131	65 9, 11	51 8th	64·0	54·3	58·8	- 1·4	2	0·06	1	- 11	Scilly	6·9	- 0·3	43	*	*	*	*	*	*
a Jersey, St. Aubins	25	73 10th	51 10th	66·1	54·3	59·8	- 2·1	1	0·35	9	- 2	St. Heliers	6·4	- 1·8	41	*	*	*	*	*	*
a Guernsey (Villa Carey)	180	72 11th	53 6, 8	64·0	54·3	58·8	- 2·7	4	0·71	18	+ 6	Guernsey†	6·1	- 2·2	38	0	46	61·2	-1·8	58·6	-1·2

†The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, July 12th, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.	Highest Gust. Speed.	Date
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day. hr.	m/s.	d. h. m.
0. SCOTLAND, N.																
Deerness (Cup Anr.)**	188	16	5	—	—	10	3	73	85	4	3	259	13	10 11	—	— — —
1. SCOTLAND, E.																
Dyce	305	75	15*	—	—	—	—	—	97	71	0	326	5	12 15	12	12 14 55
Aberdeen	153	105	52	—	—	—	—	15	87	66	0	315	8	12 17	15	12 13 5
Edinburgh	485	39	31	—	—	—	—	50	76	42	0	270	10	11 18	15	11 16 55
6. SCOTLAND, W.																
Eskdalemuir	825	50	22	—	—	—	—	24	78	66	0	250	9	11 15	14	11 18 0
Paisley	188	81	15	—	—	—	—	22	107	39	0	315	10	12 16	17	11 13 30
2. ENGLAND, N.E.																
Alnwick Castle	340	70	17	—	—	—	—	—	49	119	0	225	5	11 16	10	11 15 35
South Shields	72	61	12	—	—	—	—	15	118	35	0	293	8	11 12	12	11 16 30
Spurn Head	66	40	‡	—	Instrument dismounted for repair.			—	—	—	—	—	—	— —	—	— — —
3. ENGLAND, E.																
Yarmouth (Cup Anr.)	73	60	10	—	—	—	—	—	—	—	—	—	—	— —	—	— — —
Gorleston	52	42	‡	—	—	—	—	21	140	4	3	—	7	9 14	10	9 14 25
Shoeburyness	103	90	‡	—	—	—	—	7	143	18	0	337	6	12 8	11	12 7 40
4. MIDLAND COUNTIES																
Benson	270	84	‡	—	—	—	—	—	127	41	0	337	5	12 17	11	12 16 15
5. ENGLAND, S.E.																
Brighton	261	53	6	—	—	—	—	10	89	69	0	—	9	6 3	12	6 3 20
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	— —	—	— — —
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	37	125	6	0	230	9	12 6	13	12 5 50
Richmond (Kew Obs.)	82	65	22	—	—	—	—	—	104	64	0	23	5	3 1	9	12 7 10
7. ENGLAND, N.W.																
Carnforth	246	56	23	—	—	—	—	—	44	124	0	214	4	11 18	9	12 11 35
Fleetwood (Cup Anr.)	109	44	—	—	—	10, 12	20	50	78	13	7	315	16	12 18	—	— — —
Southport	80	62	48	—	—	12	17	52	97	2	0	315	15	12 18	18	12 16 40
Holyhead	60	40	‡	—	—	—	—	54	92	22	0	349	10	12 21	14	12 20 35
8. ENGLAND, S.W.																
Pendennis Castle§	256	65	24	—	—	—	—	98	44	26	0	337	11	12 12	16	12 12 25
Plymouth	185	88	2	—	—	—	—	14	119	35	0	—	8	12 6	14	12 6 5
Lyme Regis (Rousdon)	600	65	30*	—	—	—	—	2	80	86	0	—	6	6 5	11	12 17 45
10. IRELAND, S.																
Kingstown (Cup Anr.)	49	27	—	—	—	—	—	59	81	28	0	315	11	12 13	—	— — —
Quilty	100	40	‡	—	—	8	4	64	61	39	0	—	12	8 18	16	8 18 15
Cahirciveen (Val. Obs.)	98	41	‡	—	—	—	—	56	79	33	0	350	11	12 12	15	12 12 0
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	—	—	— —	—	— — —
11. ENGLISH CHANNEL																
Scilly	150	32	‡	—	—	—	—	33	112	23	0	337	8	12 15	12	12 4 30

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]

* Above tops of trees.

‡ Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory.

** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

TWENTY-EIGHTH WEEK of 1919—July 6th to July 12th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Mean Pressure at M.S.L.
	At any "D.-V." Station.		Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	Highest	Lowest	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	70	41	88·8	81·5	84·9	− 0·3	80	− 9	0	0	2	− 2	0·15	4	− 13	4·2	−0·4	24	1019
Eastern.																			
1. SCOTLAND, EAST ...	77	34	90·9	80·9	85·6	− 1·0	89	− 11	0	0	1	− 3	0·03	1	− 16	7·7	+2·2	45	1019
2. ENGLAND, N.E.	79	40	90·0	82·1	85·8	− 2·1	91	− 25	0	0	1	− 2	0·18	5	− 8	3·8	−2·4	23	1019
3. ENGLAND, EAST ...	78	42	89·7	82·5	85·8	− 3·0	92	− 38	0	0	3	0	0·59	15	+ 2	3·3	−3·5	20	1018
4. MIDLAND COUNTIES ...	80	39	92·6	82·3	87·1	− 1·3	107	− 17	0	0	1	− 2	0·35	9	− 4	5·1	−0·9	31	1019
5. ENGLAND, S.E.	79	39	91·8	83·6	87·4	− 1·9	112	− 21	0	0	2	− 1	0·34	9	− 2	4·3	−2·9	27	1018
Western.																			
6. SCOTLAND, WEST ...	74	41	90·6	82·2	86·1	− 0·8	95	− 10	0	0	1	− 3	0·09	2	− 20	8·4	+2·1	49	1019
7. ENGLAND, N.W.	75	42	89·9	82·7	86·1	− 1·7	95	− 22	0	0	1	− 2	0·11	3	− 14	5·6	−0·8	33	1020
8. ENGLAND, S.W.	80	41	92·5	83·4	87·7	− 0·6	115	− 7	0	0	2	− 1	0·17	4	− 12	7·7	+1·1	48	1020
9. IRELAND, NORTH ...	71	42	89·1	82·7	85·7	− 1·2	90	− 15	0	0	2	− 2	0·06	2	− 16	4·1	−0·9	25	1021
10. IRELAND, SOUTH ...	72	43	91·4	83·2	87·1	− 0·7	107	− 10	0	0	1	− 3	0·09	2	− 16	6·4	+0·9	39	1023
11. ENGLISH CHANNEL ...	73	51	91·2	85·4	88·1	− 1·0	120	− 13	0	0	2	− 1	0·37	9	− 3	6·5	−1·5	41	1020

THE SEASON (Summer).—Aggregates, &c., for the Period of 6 Weeks, June 1st to July 12th, 1919.

0. SCOTLAND, NORTH ...	70	38	87·4	81·0	84·0	− 0·8	410	− 68	0	− 1	27	+ 4	4·83	123	+ 23	4·4	−0·5	25	1016
Eastern.																			
1. SCOTLAND, EAST ...	78	29	89·4	80·9	84·9	− 0·8	480	− 57	0	0	21	0	2·15	56	− 27	5·9	+0·1	34	1016
2. ENGLAND, N.E.	84	39	90·8	82·2	86·2	− 0·4	578	− 27	0	0	20	+ 2	2·11	54	− 19	5·4	−0·8	32	1017
3. ENGLAND, EAST ...	84	32	91·4	82·3	86·5	− 1·1	602	− 82	0	0	15	− 3	2·40	62	− 9	6·2	−0·7	38	1018
4. MIDLAND COUNTIES ...	84	35	91·2	82·2	86·8	− 0·6	626	− 42	0	0	17	− 1	2·18	55	− 21	5·8	−0·4	36	1018
5. ENGLAND, S.E.	82	35	91·9	82·7	87·0	− 1·0	637	− 73	0	0	14	− 3	1·80	45	− 22	6·3	−0·9	39	1019
Western.																			
6. SCOTLAND, WEST ...	76	34	89·3	81·7	85·3	− 1·0	508	− 77	0	0	23	+ 1	4·59	116	+ 9	6·6	+0·3	39	1017
7. ENGLAND, N.W.	83	36	89·8	82·7	86·0	− 0·9	565	− 66	0	0	19	0	2·30	58	− 29	5·9	−0·6	35	1019
8. ENGLAND, S.W.	81	35	91·0	82·7	86·6	− 0·7	606	− 56	0	0	15	− 4	1·89	47	− 39	7·4	+0·6	46	1020
9. IRELAND, NORTH ...	73	36	88·7	82·0	85·2	− 1·1	499	− 83	0	0	23	− 1	3·75	95	− 1	5·1	−0·2	30	1019
10. IRELAND, SOUTH ...	79	36	90·5	82·8	86·4	− 0·7	592	− 57	0	0	18	− 3	2·67	67	− 27	5·9	+0·1	36	1022
11. ENGLISH CHANNEL ...	80	46	90·5	84·4	87·2	− 0·7	655	− 55	0	0	11	− 7	1·90	48	− 18	7·2	−0·8	45	1022

THE YEAR 1919.—Aggregates, &c., for the Period of 28 Weeks, December 29th, 1918, to July 12th, 1919.

0. SCOTLAND, NORTH ...	78	11	82·1	75·9	78·9	− 0·7	801	−119	680	+ 141	119	− 8	20·46	521	−109	3·7	+0·1	28	1011
Eastern.																			
1. SCOTLAND, EAST ...	78	5	82·6	75·3	78·8	− 1·0	903	−140	787	+ 170	102	− 7	13·49	347	− 29	3·9	−0·2	30	1011
2. ENGLAND, N.E.	84	11	83·6	76·7	80·0	− 0·5	1090	− 88	578	+ 106	104	+ 6	13·00	331	+ 36	3·9	−0·6	30	1012
3. ENGLAND, EAST ...	84	10	84·2	76·7	80·3	− 0·7	1205	−177	580	+ 86	97	+ 1	13·18	338	+ 51	4·3	−0·4	34	1013
4. MIDLAND COUNTIES ...	84	9	84·2	76·6	80·3	− 0·7	1245	−145	628	+ 106	96	+ 1	15·47	393	+ 69	4·0	−0·2	31	1013
5. ENGLAND, S.E.	82	16	84·8	77·5	81·0	− 0·6	1344	−134	451	+ 72	97	+ 4	15·66	396	+ 80	4·3	−0·6	34	1013
Western.																			
6. SCOTLAND, WEST ...	83	14	83·5	76·7	80·0	− 0·7	1036	−139	539	+ 123	109	− 7	19·40	492	− 72	4·2	0·0	33	1012
7. ENGLAND, N.W.	83	16	83·6	77·3	80·4	− 0·6	1127	−129	494	+ 112	102	0	15·23	388	− 18	4·1	−0·3	32	1012
8. ENGLAND, S.W.	81	15	84·4	77·7	80·9	− 0·7	1252	−158	409	+ 108	104	+ 2	20·19	514	+ 64	4·7	0·0	37	1013
9. IRELAND, NORTH ...	76	22	83·8	77·3	80·4	− 0·7	1079	−156	437	+ 97	123	− 2	16·92	426	− 35	4·0	0·0	31	1011
10. IRELAND, SOUTH ...	80	22	84·7	78·1	81·3	− 0·6	1293	−168	362	+ 102	117	+ 6	17·58	448	− 42	4·2	−0·2	33	1013
11. ENGLISH CHANNEL ...	80	26	85·1	79·9	82·4	− 0·5	1486	−147	137	+ 32	108	+ 1	21·89	554	+183	4·9	−0·7	39	1014
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	h.m

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: July 18th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 113

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 29.

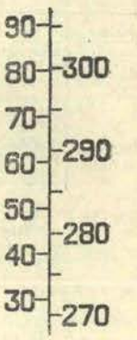
THE TWENTY-NINTH WEEK OF 1919.

SUNDAY, JULY 13TH, TO SATURDAY, JULY 19TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

During the earlier days of the week, with an anticyclone extending from the Azores to our South-Western coasts, fair but rather cool weather prevailed extensively over the British Islands. On Thursday an Atlantic depression advancing towards our coasts caused a steady and persistent fall of the barometer, and at the close of the period a large but shallow low-pressure system was located over our Islands and the adjacent regions. Heavy rain over a large part of England was associated with this depression, commencing early on Saturday at the more Western stations and during the afternoon or evening further East. Measurements of 20mm. or more were recorded over a large area, the heaviest being 41mm. at Cheadle (Stoke-on-Trent) and 54mm. at Sheffield. Over the Midland counties the week's total was 17mm. more than the normal, while in Scotland North it was 17mm. less than the normal. The mean temperature for the week was below the normal in all districts, the greatest deficit being 1·5 a. in England East, England South-East and the English Channel. Maxima of 297 a. or 298 a. occurred in the Eastern and Southern districts, generally on the 18th, while in Scotland readings a trifle less high occurred earlier in the week. At Balmoral on the 14th the minimum in the screen was 271 a., while that on the grass was 270 a. Over the North-Eastern parts of Great Britain the amount of bright sunshine registered was above the normal, in Scotland East the daily mean was 8·1 hrs., against a normal of 5 hrs., at Aberdeen on the 14th the record was as large as 15·7 hrs.; elsewhere there was a deficiency. Thunder and lightning occurred at Margate on the 18th and at Little Massingham and St. Leonards-on-Sea on the 19th. Solar halos were observed in the Orkneys on the 15th, at Aberdeen on the 16th, and at Oxford and Ross-on-Wye on the 18th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E. Shoeburyness.†		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	—	—	15	2·5	16	1·9	13	1·8	13	3·7	8	2·4	11	2·2	9	3·1
North	—	—	6	2·9	8	3·9	7	2·4	14	4·7	19	4·8	8	2·2	13	2·7
West	—	—	20	4·4	22	3·2	23	2·0	26	3·6	27	4·0	20	7·1	20	3·4
East	—	—	3	2·7	2	4·7	0	—	0	—	0	—	3	1·3	2	0·8
Calm	—	—	4	—	1	—	5	—	1	—	0	—	2	—	6	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Deficient	Moderate	Deficient	Moderate	Deficient	Moderate	Moderate	Deficient	Moderate	Moderate	Deficient
	Rainfall ...	Light	Light	Moderate	Moderate	Heavy	Moderate	Light	Light	Moderate	Moderate	Moderate	Moderate
	Sunshine ...	Moderate	Very abundant	Moderate	Moderate	Moderate	Scanty	Moderate	Moderate	Scanty	Scanty	Scanty	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SUMMER. 7 weeks from June 1st, 1919.	Warmth ...	0, 4, 3	1, 2, 4	3, 1, 3	2, 1, 4	2, 2, 3	1, 2, 4	1, 2, 4	2, 1, 4	1, 1, 5	1, 1, 5	1, 1, 5	1, 2, 4
	Rainfall ...	3, 1, 3	0, 5, 2	1, 2, 4	3, 2, 2	2, 3, 2	1, 3, 3	2, 1, 4	0, 3, 4	0, 5, 2	1, 4, 2	1, 4, 2	1, 4, 2
	Sunshine ...	1, 4, 2	3, 2, 2	1, 3, 3	2, 2, 3	2, 2, 3	2, 1, 4	2, 4, 1	1, 4, 2	2, 3, 2	1, 4, 2	3, 2, 2	0, 3, 4

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{5}{9}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour

(24324—19.) Wt 162—833/512. 625. 7/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft	
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average
	Ft.	°F.		°F		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.
0. SCOTLAND, N.																						
a. Islands.. a Lerwick..	54	62	18th	42	13, 14	56·9	47·4	51·8	- 0·8	3	0·09	2	- 13									
a Houton Bay, Orkney	520	59	18th	41	15, 16	56·6	45·3	50·6	—	3	0·07	2	- 15	Houton Bay ..	6·6	+ 2·4	38	0	38	•	•	•
a Stornoway	30	59	14, 15, 18	45	13, 14	58·4	50·3	54·1	- 0·4	4	0·47	12	- 9	Stornoway ..	2·1	- 2·4	12	•	•	•	•	•
a Castlebay, Barra I. ..	57	57	15th	49	13th	55·7	51·0	53·2	—	4	0·72	18	—	Castlebay ..	1·5	—	9	•	•	•	•	•
b. Mainland. a Wick	81	61	19th	38	14th	58·0	48·0	51·6	- 2·8	3	0·12	3	- 14									
a Strathpeffer	125	73	15th	38	14th	56·4	47·7	56·4	- 0·3	1	0·10	3	- 14									
p Glencarron	500	67	18th	38	14th	60·0	46·9	53·0	- 1·6	4	0·17	4	- 32									
a Fort Augustus..	68	—	—	—	—	—	—	—	—	—	—	—	—									
p Fort William	171	71	18th	39	14th	63·9	48·7	55·8	- 1·2	2	0·35	9	- 24									
1. SCOTLAND, E.																						
a Nairn	82	74	15th	35	14th	67·1	46·3	56·0	+ 2·9	3	0·51	13	- 3	Nairn ..	5·3	—	31	•	•	•	•	•
p Gordon Castle ..	101	74	18th	37	14th	66·1	46·9	55·8	+ 2·4	1	0·13	3	- 17	Gordon Castle..	6·8	—	40	•	•	•	•	•
a Aberdeen	46	71	19th	38	14th	65·6	46·6	55·4	+ 2·9	2	0·19	5	- 12	Aberdeen ..	9·2	+ 4·1	54	0	33	•	•	•
a Balmoral	930	74	15th	29	14th	66·7	40·7	52·8	+ 1·3	3	0·09	2	- 15	Balmoral ..	•	•	•	2	27	•	•	•
p Crieff	432	75	15th	40	13, 14	68·1	45·8	56·1	+ 1·3	3	0·75	19	- 1	Crathes	8·6	+ 3·7	51	2	26	58·6	+0·3	53·9	-0·5
a Dundee	244	72	19th	37	13th	68·3	43·6	55·1	+ 0·8	1	0·34	9	- 9	Dundee	9·7	—	58	1	29	58·1	•	•
a Leith	30	72	18th	42	13th	66·7	50·0	57·8	+ 3·1	3	0·44	11	- 5	Leith	—	—	—	0	37	•	•	•
p Edinburgh	441	69	14, 15, 18	43	13, 14	66·4	49·3	57·3	+ 4·3	2	0·18	5	- 11	Edinburgh ..	7·5	+ 2·2	45	0	37	•	•	•
a West Linton	769	70	15th	32	15th	63·0	43·7	52·7	+ 1·4	2	0·24	6	—	West Linton ..	5·3	—	32	1	28	•	•	•
p Marchmont	498	71	18th	36	13th	67·9	45·3	55·8	+ 3·0	1	0·14	4	- 16	Marchmont ..	8·1	+ 2·8	49	•	•	•	•	•
6. a. SCOTLAND, W.																						
a Ford (Argyll)	149	64	15, 18	41	13th	61·2	50·2	55·3	—	2	0·83	21	—	Ford (Argyll) ..	•	•	•	0	32	59·2	—	54·1	—
p Glasgow Observatory	180	71	15th	45	13th	64·4	51·0	57·2	- 0·5	2	0·26	7	- 11	Glasgow.. ..	6·2	+ 1·7	37	0	31	•	•	•
p Rothesay	200	66	15th	45	13th	61·3	49·3	54·9	- 2·4	4	0·67	15	- 8	Rothesay ..	4·6	—	28	0	38	58·1	—	54·1	-1·2
a Kilmarnock	90	70	15, 18	38	13th	65·4	48·7	56·5	- 0·2	3	0·22	6	- 13	Kilmarnock ..	6·1	—	37	•	•	58·6	—	53·3	—
a Colmonell	170	66	17th	46	13th	63·0	51·0	56·6	+ 0·4	2	0·47	12	- 6	Colmonell ..	•	•	•	0	41	•	•	•	•
p Cally, Gatehouse ..	120	74	15th	44	13th	65·6	49·4	56·9	+ 0·2	1	0·35	9	- 11	Dumfries ..	5·9	—	36	0	32	58·5	-2·9	54·3	-4·5
p Dumfries	160	72	15th	39	14th	65·3	47·7	55·9	- 2·7	1	0·37	10	- 8	Eskdalemuir ..	6·8	—	41	2	29	•	•	•	•
a Eskdalemuir	794	70	15th	34	15th	64·3	43·9	53·4	—	2	0·39	10	—									
b. I. OF MAN p Douglas	277	65	17th	48	13th	61·1	50·7	55·5	- 1·7	5	0·38	10	- 8	Douglas	4·5	- 1·8	28	0	46	•	•	•	•
2. ENGLAND, N.E																						
a North .. a Alnwick Castle ..	210	74	19th	38	13th	67·9	46·4	56·4	- 1·1	2	0·20	5	- 11									
a Tynemouth	71	72	16th	42	13th	66·7	48·6	56·7	- 0·8	3	0·80	20	+ 6	Cockle Park ..	6·5	+ 1·2	39	0	34	57·5	-0·7	53·8	-1·3
p Durham	336	72	19th	42	13th	67·0	47·0	56·3	- 2·0	3	0·22	6	- 10	Durham	7·8	+ 2·7	48	0	35	•	•	•	•
p Rounton	249	73	17, 19	43	13, 14	67·3	47·9	56·9	- 0·8	3	0·49	13	- 4	Rounton	•	•	•	0	32	58·3	•	•	•
a West Witton	605	79	18th	44	13th	68·9	48·3	57·9	—	4	0·42	11	—	West Witton ..	•	•	•	0	41	58·3	—	51·8	—
p Scarborough	100	73	19th	47	13th	66·0	51·3	58·1	- 0·9	3	0·38	10	- 4	Scarborough† ..	6·8	+ 1·4	42	•	•	•	•	51·0	—
p York	56	73	16, 18	46	13, 14	68·1	50·3	58·6	- 1·5	4	1·58	40	+ 25	York	5·0	- 0·3	31	—	—	59·3	-0·2	55·1	-1·0
b. South .. a Spurn Head	26	70	19th	49	16th	62·9	52·4	57·3	- 2·3	5	0·44	11	+ 1	Spurn Head ..	2·3	—	14	•	•	•	•	•	•
a Lincoln	58	75	18th	47	14–16	69·3	50·9	59·5	+ 1·3	3	0·72	18	+ 5	Lincoln	•	•	•	0	44	59·6	-1·2	55·6	-1·0
a Fulbeck	180	74	16, 18	44	14th	69·4	49·3	58·7	- 1·8	5	0·96	24	+ 10	Fulbeck* ..	6·3	0·0	39	•	•	60·4	-2·5	56·1	-1·1
														Skegness ..	8·6	+ 2·1	53	•	•	•	•	•	•
3. ENGLAND, E.																						
p Cromer	196	70	16, 18, 19	46	15, 16	65·7	51·0	57·8	- 2·2	4	0·28	7	- 9	Cromer	6·2	- 0·3	39	•	•	•	•	•	•
a Little Massingham ..	280	76	18th	43	16th	67·1	50·0	58·0	- 2·6	4	0·70	18	0	Lit. Massingham	6·7	+ 0·5	42	•	•	•	•	•	•
a Yarmouth	13	71	16th	43	16th	63·9	49·6	56·3	- 4·2	3	0·59	15	0	Yarmouth ..	7·1	—	44	0	43	59·3	-4·9	56·3	-3·9
a Norwich	93	75	19th	41	16th	68·1	50·0	58·4	- 2·7	4	0·29	7	- 10	Norwich ..	5·9	—	37	0	35	60·4	•	•	•
a Geldeston	37	74	16, 19	41	16th	67·7	49·1	57·8	- 2·9	4	0·50	13	- 2	Geldeston ..	6·0	- 0·6	38	•	•	•	•	•	•
p Cambridge	41	77	18th	40	16th	69·4	51·3	59·7	- 1·9	2	0·13	3	- 11	Cambridge ..	5·9	- 0·5	37	0	39	61·0	-1·9	56·9	-2·2
a Clacton-on-Sea ..	54	69	19th	44	16th	65·0	52·3	58·2	- 3·0	3	0·22	6	- 6	Clacton	6·1	- 0·9	38	0	39	59·7	-1·6	57·4	-1·7
a Rothamsted	424	73	18th	42	16th	66·7	50·6	58·1	- 2·4	2	0·36	9	- 6	Rothamsted ..	5·2	- 1·3	33	0	35	—	•	58·8	•
p Tottenham	61	76	18th	49	16th	68·6	54·0	60·8	—	3	0·17	4	—	Tottenham ..	4·6	—	29	0	46	•	•	58·8	-1·6
														S'thend-on-Sea	6·0	—	38	0	45	61·9	-2·9	—	—
4. MIDLAND COUNTIES.																						
a North .. a Harrogate	479	70	17, 19	43	13, 14	65·9	48·3	56·5	- 1·8	4	0·87	22	+ 8	Harrogate ..	6·8	+ 1·2	42	0	40	56·6	-0·8	54·7	-0·8
p Sheffield	429	72	17th	47	13th	67·9	50·9	58·8	—	3	2·15	55	—	Sheffield.. ..	6·4	+ 0·9	39	0	40	58·6	-0·3	53·4	-1·0
p Buxton	987	67	17, 19	43	13th	63·6	49·3	56·0	—	3	0·81	21	+ 1	Buxton	4·5	—	28	0	42	57·9	-0·6	52·6	-1·6
b. East .. a Bawtry	65	74	18th	47	13-15	69·0	48·9	58·3	- 2·1	1	1·05	27	+ 15	Worksop ..	5·4	+ 0·4	33	0	37	59·4	—	55·5	—
a Nottingham	82	74	16th	47	16th	68·4	52·0	59·6	- 1·1	3	1·19	30	+ 18	Nottingham ..	4·4	- 1·0	27	0	41	60·5	-0·4	56·3	-1·1
p Birmingham, Edgbsn.	535	72	16th	47	13th	66·7	52·9	59·3	- 1·1	5	1·64	42	+ 30	Birmingham ..	3·2	- 1·4	20	0	38	55·5	-0·7	51·4	-1·1
a Raunds	203	76	16, 18	42	16th	69·3	50·1	59·0	- 2·5	3	0·33	8	- 5	Raunds	5·1	—	32	0	35	59·7	—	54·7	—
p Oxford	208	73	16, 17, 18	46	16th	68·3	52·3	59·7	- 2·0	3	0·84	21	+ 9	Oxford	4·8	- 1·3	30	0	38	•	•	•	•
														Malvern ..	4·7	—	29	0	41	61·5	—	58·2	—
c. West .. a Cheadle (N. Staffs.) ..	646	72	16, 17	45	13th	68·3	50·9	59·0	+ 0·3	3	1·64	42	+ 27	Cheadle	•	•	•	0	45	•	•	•	•
p Tenbury	313	74	16th	42	13, 16	69·0	50·9	59·3	- 0·7	5	1·04	26	+ 16	Tenbury	•	•	•	0	37	61·2	—	—	—
p Ross-on-Wye	201	73	16th	44	13th	69·6	50·7	59·5	- 1·5	2	1·28	33	+ 22	Ross-on-Wye ..	4·4	—	28	0	37	—	—	—	—
a Clifton	228	71	15th	47	13th	67·4	54·1	60·3	- 2·3	4	1·50	38	+ 21	Clifton	5·1	—	32	0	45	•	•	•	•
5. ENGLAND, S.E.																						
a Marlborough	424	72	15, 18	38	16th	67·3	49·1	57·6	- 1·7	3	0·52	13	- 2	Worthing	5·7	- 1·6	36	0	41	60·8	-3·2	57·4	-2·2
p Salisbury (Wilton) ..	180	75	17th	42	16th	69·6	50·9	59·6	- 1·9	2	0·64	16	+ 1	Marlborough ..	5·1	- 0·8	32	0	34	60·7	—	56·4	—
a Wisley, Surrey ..	150	77	16, 18	40	16th	68·7	51·1	59·3	- 2·1	3	1·06	27	+ 15	Salisbury	•	•	•	0	40	62·3	•	•	•
a Tunbridge Wells ..	354	74	18th	40	16th	68·1	49·4	58·1	- 3·1	2	0·38	10	- 4	Wisley	5·6	- 0·9	35	0	31	60·0	-2·6	56·1	-2·8
a Margate	61	74	18th	50	15th	67·6	54·6	60·7	- 1·4	5	0·53	13	+ 1	Tunbridge Wells	5·0	- 1·7	31	0	33	59·1	-4·2	56·4	—
														Margate	6·1	- 0·2	38	0	48	61·8	-0·2	59·6	+1·0
a Dungeness	21	64	13th	45	13, 16	62·7	50·3	56·1	- 5·0	4	0·48	12	+ 1	Folkestone ..	4·8	—	33	•	•	•	•	53·4	—
p St. Leonards	178	65	17th	46	13th	62·9	51·1	56·6	- 4·7	3	0·60	15	+ 1	St. Leonards ..	5·3	- 2·0	33	0	40	61·0	—	58·0	—
p Southampton	64	74	16th	45	13, 16	68·9	51·9	59·8	- 3·1	2	0·60	15	+ 1	Southampton ..	5·7	- 1·1	36	0	35	•	•	•	•
a Ventnor	59	69	15th	47	13th	65·1	52·9	58·6	- 3·3	3	0·32	8	- 4	Ventnor	5·3	- 1·8	33	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	77	18th	45	16th	69·1	51·7	59·8	- 2·6	2	0·38	10	- 3	Richmond ..	4·7	- 1·6	30	0	33	60·1	-2·0	55·6	-2·0
a Westminster	27	76	16, 18	45	16th	69·3	53·4	60·8	- 2·2	2	0·32	8	- 6	Westminster ..	4·6	- 1·4	29	0	42	•	•	•	•
ag Greenwich	149	79	16, 18	41	16th	71·4	52·3	61·2	- 1·9	2	0·30	8	- 5	Greenwich ..	5·0	- 2·6	31	1	29	•	•	•	•
a Hampstead	450	75	16, 18	45	16th	67·1	51·1	58·5	—	2	0·38	10	—	Hampstead ..	4·7	—	30	0	35	•	•	•	•
ag Camden Square ..	110	80	16, 18	44	16th	71·7	52·6	61·5	- 2·3	2	0·28	7	- 8	Camden Square	4·2	- 1·3	26	0	42	•	•	•	•
7. a. ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	67	15th	40	13th	63·0	47·1	54·5	- 3·4	2	0·22	6	- 13	Aspatria.. ..	6·6	+ 1·1	40	0	38	57·2	-3·2	53·2	-1·8
p Newton Rigg	559	71	15th	40	14th	66·9	46·6	56·0	- 1·9	2	0·09	2	- 14	Newton Rigg ..	6·8	+ 1·3	41	0	31	59·1	-1·0	54·8	-0·4
p Stonyhurst	375	69	18th	46	13, 14	65·1	50·9	57·5	- 1·0	3	0·17	4	- 18	Stonyhurst ..	5·3	0·0	33	0	37	•	•	•	•
p Blackpool	66	70	19th	50	13, 17	64·4	53·1	58·4	- 0·8	2	0·27	7	- 9	Blackpool ..	5·7	- 0·6	35	0	41	58·7	—	53·5	—
a Southport	37	66	18th	50	13th	62·7	53·1	57·6	- 1·7	2	0·18	5	- 11	Southport ..	5·3	- 0·9	33	0	46	62·2	-1·4	58·6	-1·7
														Hoylake ..	—	—	—	0	46	•	•	•	•
a Liverpool (Bidston) ..	188	69	18th	51	13th	62·4	53·9	57·9	- 2·0	5	0·36	9	- 5	Liverpool ..	4·7	—	29	0	46	•	•	•	•
a Hawarden Bridge ..	22	71	18th	51	13, 16	65·6	53·4	59·1	- 1·4	4	0·33	8	- 5	Manchester(City)	4·2	- 0·2	26	0	44	59·8	-1·0	57·9	-0·2
p Manchester (Whit. Pk.)	125	71	18th	48	13th	67·6	52·6	59·6	- 0·9	3	0·76	19	+ 1	Whitworth Park	3·6	- 1·1	22	•	•	•	•	•	•
b NORTH WALES.																						
p Llandudno	16	65	16, 18	51	13th	62·6	53·4	57·7	- 2·4	5	0·35	9	- 4	Llandudno ..	3·4	- 2·6	21	•	•	•	•	•	•
a Holyhead	15	65	17th	50	13th	62·1	52·3	56·9	- 1·7	4	0·45	12	- 2	Holynead ..	2·8	—	17	0	47	•	•	•	•
a Beddgelert	309	68	13th	49	13th	61·1	52·0	56·2	—	6	2·50	64	—	Aberdovey ..	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—									

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft Mean.	Earth 4 ft Deviation from average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	m.m.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
8. *a.* SOUTH WALES.																							
a Aberystwyth	59	64	16th	50	14th	61·4	53·4	57·1	—	5	0·44	11	—	Aberystwyth ..	3·4	- 2·2	21	*	*	*	*	*	*
a Rhayader	757	67	16th	44	13, 16	63·4	50·7	56·6	—	4	0·45	12	—	Rhayader ..	3·9	—	24	0	34	*	*	*	*
a St. Ann's Head	149	64	15th	49	13th	61·1	53·0	56·8	- 1·9	4	0·43	11	- 4	St. Ann's Head ..	4·2	- 2·2	26	*	*	*	*	*	*
p Cardiff	202	69	15, 18	46	13th	65·7	52·1	58·4	- 2·0	3	1·14	29	+ 9	Cardiff	4·3	—	27	0	37	61·0	-0·1	57·0	-1·2
b. ENGLAND, S.W.																							
a Bath	66	72	17, 18	45	16th	69·3	53·4	60·8	- 0·4	4	1·24	31	+ 16	Bath	*	*	*	—	—	62·9	-0·6	59·3	-0·7
a Shaftesbury	722	71	16, 17	43	13th	67·6	50·3	58·4	- 1·6	4	0·87	22	+ 6	Shaftesbury ..	*	*	*	*	*	60·6	—	56·8	—
a Arlington	613	66	18th	47	16th	62·3	52·0	56·8	- 1·9	5	0·53	13	- 12										
a Newquay	190	65	16–18	54	13th	62·6	55·7	58·9	- 1·3	3	0·30	8	- 6	Newquay ..	5·0	- 1·4	32	0	50	62·2	—	57·6	—
a Cullompton	202	76	16th	45	16th	69·3	53·6	60·9	+ 0·2	3	0·76	19	+ 3	Cullompton ..	4·2	- 1·6	27	0	39	64·6	*	*	*
a Portland Bill	19	67	15th	50	13th	62·7	53·3	57·7	- 2·7	4	0·91	23	+ 12	Weymouth ..	7·1	—	45	*	*	*	*	*	*
p Plymouth	116	68	16th	49	13th	64·0	54·7	59·0	- 2·1	3	0·84	21	+ 4	Plymouth ..	3·9	- 2·6	25	0	42	62·8	-1·0	58·0	—
a Falmouth	167	69	16th	48	13th	65·3	54·4	59·5	- 1·0	2	0·23	6	- 11	Falmouth ..	5·3	- 1·6	34	0	41	64·0	—	61·0	—
9. IRELAND, N.																							
a West .. *a* Malin Head	208	62	18th	48	13th	58·1	50·9	54·3	- 2·2	5	0·53	13	- 5	Malin Head ..	2·0	—	12	*	*	*	*	*	*
a Blacksod Point ..	327	63	16th	51	13th	60·7	52·9	56·5	- 1·1	5	1·00	25	++ 5	Markree Castle	2·6	- 1·5	16	0	37	59·7	-0·9	55·4	-0·6
p Markree Castle ..	122	67	16th	45	13th	62·4	51·1	56·4	- 0·6	6	1·27	32	+ 10										
b, East .. *p* Armagh	196	67	15, 16	45	13th	63·9	51·9	57·5	- 0·3	3	0·31	8	- 10	Armagh	2·0	- 2·4	12	0	39	59·0	-2·2	55·5	-1·4
a Donaghadee	101	62	17th	48	13th	59·4	51·7	55·3	- 2·0	3	0·28	7	- 11										
10. IRELAND, S.																							
p Dublin, City	47	67	16th	46	13th	64·1	54·0	58·7	- 1·7	4	0·08	2	- 11	Trinity Coll. ..	*	*	*	—	—	—	—	—	—
a Birr Castle	175	70	15th	43	13th	64·1	50·6	56·9	- 1·9	3	0·35	9	- 6	Phœnix Park ..	3·4	- 1·8	21	0	36	*	*	*	*
a Kilkenny	212	69	15th	39	13th	66·3	52·4	58·9	- 0·4	3	0·37	10	- 5	Dublin City ..	*	*	*	0	43	*	*	*	*
a Waterford	120	71	15, 16	45	13th	66·0	53·0	59·1	- 0·9	1	0·40	10	- 6	Birr Castle ..	3·5	- 0·9	22	0	36	*	*	*	*
p Seskin, Carrick-on-Suir	541	73	15th	41	13th	67·3	51·1	58·6	—	1	0·34	9	—	Seskin	5·9	—	37	0	38	*	*	*	*
a Cahir	199	70	15, 16, 18	46	13th	67·6	52·9	59·7	+ 0·4	2	0·39	10	—										
a Foynes	50	65	15, 17	47	13th	63·6	52·9	57·9	- 1·3	7	0·77	20	+ 4										
a Cahirciveen (Val. Obs.)	30	63	17th	49	13th	61·0	52·9	56·7	- 2·4	6	0·83	21	++ 1	Cahirciveen ..	3·3	- 1·5	21	0	40	*	*	*	*
a Killarney	174	72	15th	45	12th	66·0	53·1	59·1	- 0·3	5	0·98	26	+ 8	Ballinacurra ..	—	—	—	*	*	*	*	*	*
a Roche's Point	32	66	15, 17	50	13th	64·1	54·4	58·9	- 0·4	1	0·55	14	- 1										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	65	15, 17	52	13th	63·4	54·9	58·9	- 1·7	4	0·33	8	- 5	Scilly	5·2	- 1·4	33	*	*	*	*	*	*
a Jersey, St. Aubins ..	25	67	18th	52	16th	64·1	53·9	58·6	- 3·7	3	0·29	7	- 5	St. Heliers ..	7·1	- 0·4	46	*	*	*	*	*	*
a Guernsey (Villa Carey)	180	66	18th	52	13th	63·3	54·0	58·3	- 3·6	2	0·28	7	- 6	Guernsey† ..	6·2	- 1·5	40	0	46	62·0	-1·4	59·0	-1·3

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, July 19th, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	1	81	86	0	135	6	18	15	13	14	14	40
Aberdeen	153	105	52	—	—	—	—	19	76	73	0	326	8	14	14	13	14	13	5
Edinburgh	485	39	31	—	—	—	—	53	96	19	0	247	8	15	24	12	16	10	40
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	—	—	55	77	36	0	220	10	18	16	14	18	15	55
Paisley	188	81	15	—	—	—	—	23	129	16	0	315	10	14	19	17	13	10	35
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	4	60	104	0	337	7	15	7	14	15	7	25
South Shields	72	61	12	—	—	—	—	21	116	31	0	11	9	15	7	15	15	7	15
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	15	3	28	117	20	0	—	11	15	13	17	15	11	10
Shoeburyness	103	90	‡	—	—	—	—	54	107	7	0	337	9	15	12	17	15	15	0
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	12	119	37	0	360	8	15	9	14	15	9	55
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	14	108	46	0	—	7	15	11	14	15	10	10
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	13	1	83	62	19	3	268	11	13	18	15	13	18	0
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	7	111	49	1	349	6	15	9	12	15	15	35
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	7	41	120	0	247	8	13	12	14	13	12	15
Fleetwood (Cup Anr.) ..	109	44	—	—	—	13, 14, 19	20	57	87	4	0	281	13	13	11	—	—	—	—
Southport	80	62	48	—	—	13 to 15, 19	26	81	58	3	0	281	14	13	14	20	13	13	55
Holyhead	60	40	‡	—	—	15	2	79	77	10	0	360	11	15	4	15	15	6	10
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	14, 18	3	92	53	20	0	203	12	18	23	18	14	15	50
Plymouth	185	88	2	—	—	—	—	27	99	42	0	—	8	19	1	13	14	14	0
Lyme Regis (Rousdon)	600	65	30*	—	—	—	—	4	88	76	0	—	6	14	19	13	14	19	0
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	13 to 15	15	77	63	13	0	281	13	13	12	—	—	—	—
Quilty	100	40	‡	—	—	14	1	94	63	10	0	—	11	14	14	16	14	14	10
Cahirciveen (Val. Obs.)	98	41	‡	—	—	—	—	51	94	23	0	185	10	18	10	17	18	9	35
Weaver Pt.	160	30	‡	—	—	14, 15, 18	9	96	61	2	0	—	12	18	15	17	15	5	30
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	60	59	49	0	337	10	15	5	14	15	4	45

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.

* Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

TWENTY-NINTH WEEK of 1919—July 13th to July 19th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	73	38	88·9	81·8	85·1	− 0·7	83	− 8	0	0	3	− 2	0·22	6	− 17	4·4	+0·4	25	1013
Eastern.																			
1. SCOTLAND, EAST ...	75	29	92·1	80·6	85·9	− 0·8	93	− 11	0	0	2	− 2	0·31	8	− 10	8·1	+3·1	48	1014
2. ENGLAND, N.E.	75	38	92·6	82·6	87·2	− 0·7	109	− 8	0	0	3	0	0·64	16	+ 1	6·8	+1·2	42	1015
3. ENGLAND, EAST ...	77	40	92·4	83·5	87·6	− 1·5	114	− 18	0	0	3	0	0·36	9	− 6	6·0	−0·5	37	1016
4. MIDLAND COUNTIES ...	76	42	93·1	83·6	88·1	− 0·6	120	− 7	0	0	3	0	1·14	29	+ 17	5·1	−0·6	32	1016
5. ENGLAND, S.E.	77	38	92·4	83·7	87·8	− 1·6	116	− 21	0	0	3	0	0·55	14	+ 1	5·3	−1·4	34	1017
Western.																			
6. SCOTLAND, WEST ...	74	38	90·4	82·9	86·4	− 0·7	99	− 10	0	0	3	− 1	0·43	11	− 9	5·4	−0·2	32	1015
7. ENGLAND, N.W.	71	40	90·9	83·8	87·2	− 0·8	109	− 10	0	0	3	− 1	0·33	8	− 9	5·5	0·0	34	1017
8. ENGLAND, S.W.	76	43	91·4	84·6	87·7	− 0·9	116	− 11	0	0	4	0	0·74	19	+ 1	4·3	−1·8	27	1019
9. IRELAND, NORTH ...	70	43	89·3	83·8	86·4	− 0·7	99	− 9	0	0	4	− 1	0·61	16	− 4	2·3	−2·0	14	1016
10. IRELAND, SOUTH ...	72	39	91·2	84·6	87·7	− 0·5	115	− 7	0	0	4	0	0·52	13	− 3	3·4	−1·5	21	1019
11. ENGLISH CHANNEL ...	67	52	90·6	85·4	87·8	− 1·5	116	− 20	0	0	3	− 1	0·30	7	− 6	6·2	−1·1	40	1020

THE SEASON (Summer).—Aggregates, &c., for the Period of 7 Weeks, June 1st to July 19th, 1919.

0. SCOTLAND, NORTH ..	73	38	87·6	81·1	84·1	− 0·8	493	− 76	0	− 1	30	+ 2	5·05	129	+ 6	4·4	−0·3	25	1015
Eastern.																			
1. SCOTLAND, EAST ...	78	29	89·8	80·9	85·0	− 0·8	573	− 68	0	0	23	− 2	2·46	64	− 37	6·2	+0·5	36	1016
2. ENGLAND, N.E.	84	38	91·0	82·3	86·3	− 0·5	687	− 35	0	0	23	+ 2	2·75	70	− 18	5·6	−0·5	33	1017
3. ENGLAND, EAST ...	84	32	91·6	82·4	86·7	− 1·1	716	−100	0	0	18	− 3	2·76	71	− 15	6·2	−0·6	38	1018
4. MIDLAND COUNTIES ...	84	35	91·5	82·4	87·0	− 0·6	746	− 49	0	0	20	− 1	3·32	84	− 4	5·7	−0·4	35	1018
5. ENGLAND, S.E.	82	35	92·0	82·8	87·1	− 1·1	753	− 94	0	0	17	− 3	2·36	60	− 20	6·2	−1·0	38	1018
Western.																			
6. SCOTLAND, WEST ...	76	34	89·5	81·9	85·4	− 1·0	607	− 87	0	0	26	0	5·02	127	0	6·5	+0·4	38	1017
7. ENGLAND, N.W.	83	36	90·0	82·9	86·2	− 0·9	674	− 76	0	0	22	− 1	2·63	66	− 38	5·9	−0·4	35	1018
8. ENGLAND, S.W.	81	35	91·1	83·0	86·7	− 0·8	722	− 67	0	0	19	− 4	2·63	66	− 38	7·0	+0·3	43	1020
9. IRELAND, NORTH ...	73	36	88·8	82·3	85·3	− 1·1	598	− 92	0	0	27	− 2	4·36	111	− 5	4·7	−0·5	28	1018
10. IRELAND, SOUTH ...	79	36	90·6	83·1	86·5	− 0·8	707	− 64	0	0	22	− 3	3·19	80	− 30	5·5	−0·2	34	1021
11. ENGLISH CHANNEL ...	80	46	90·5	84·5	87·3	− 0·8	771	− 75	0	0	14	− 8	2·20	55	− 24	7·1	−0·8	44	1021

THE YEAR 1919.—Aggregates, &c., for the Period of 29 Weeks, December 29th, 1918, to July 19th, 1919.

0. SCOTLAND, NORTH ...	78	11	82·3	76·1	79·1	− 0·7	884	−127	680	+ 141	122	−10	20·68	527	−126	3·7	+0·1	28	1011
Eastern.																			
1. SCOTLAND, EAST ...	78	5	82·9	75·5	79·1	− 0·9	996	−159	787	+ 170	104	− 9	13·80	355	− 39	4·1	−0·1	31	1011
2. ENGLAND, N.E.	84	11	83·9	76·9	80·2	− 0·6	1199	− 96	578	+ 106	107	+ 6	13·64	347	+ 37	4·0	−0·5	31	1012
3. ENGLAND, EAST ...	84	10	84·5	77·0	80·6	− 0·7	1319	−195	580	+ 86	100	+ 1	13·54	347	+ 45	4·3	−0·5	34	1013
4. MIDLAND COUNTIES ...	84	9	84·5	76·8	80·6	− 0·6	1365	−152	628	+ 106	99	+ 1	16·61	422	+ 86	4·0	−0·3	31	1013
5. ENGLAND, S.E.	82	16	85·0	77·7	81·2	− 0·7	1460	−155	451	+ 72	100	+ 4	16·22	411	+ 82	4·4	−0·5	34	1013
Western.																			
6. SCOTLAND WEST ...	83	14	83·7	77·0	80·2	− 0·7	1135	−149	539	+ 123	112	− 8	19·83	503	− 81	4·3	0·0	33	1012
7. ENGLAND, N.W. ...	83	16	83·9	77·6	80·6	− 0·7	1236	−133	494	+ 112	105	− 1	15·56	396	− 27	4·2	−0·2	32	1013
8. ENGLAND, S.W.	81	15	84·6	78·0	81·2	− 0·7	1368	−169	409	+ 108	108	+ 2	20·93	533	+ 65	4·7	−0·1	36	1014
9. IRELAND, NORTH ...	76	22	84·0	77·5	80·6	− 0·7	1178	−165	437	+ 97	127	− 3	17·53	442	− 39	4·0	0·0	31	1012
10. IRELAND, SOUTH ...	80	22	85·0	78·3	81·5	− 0·6	1408	−175	362	+ 102	121	+ 6	18·10	461	− 45	4·2	−0·2	32	1013
11. ENGLISH CHANNEL ...	80	26	85·3	80·1	82·6	− 0·5	1602	−167	137	+ 32	111	0	22·19	561	+177	5·0	−0·6	39	1014
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	h.m

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: July 25th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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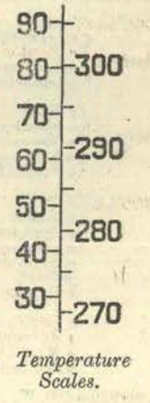
FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 30.

THE THIRTIETH WEEK OF 1919.
SUNDAY, JULY 20TH, TO SATURDAY, JULY 26TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

At the close of the previous week a depression was passing across our islands in an easterly direction. The system moved very slowly across the North Sea during the current week, and under its influence the weather over the East and South-East of England remained dull and showery throughout. In the western and northern districts, owing to the re-establishment of a high pressure area off our western coasts, conditions were more favourable, and bright dry weather was experienced; north-easterly winds and low temperature prevailed generally. The mean temperature of the week was below the normal in all districts, the greatest deficit, 2 a. to 2·5 a., being shown over the East and South-East of England. Over the eastern districts the highest of the maxima were mostly below 294 a., but in the west and south-west 297 a. was reached in several places. Minimum readings (in the screen) of 276 a. were registered over the southern half of Scotland on the morning of the 20th., while ground frost was experienced at Ford on the 20th and at Rhayader on the 25th. In the East and South-East of England rain fell on five days, and in the former district the week's total, 26mm., was 11mm. in excess of the normal, while in Scotland West, for which district the normal is 20mm., the actual fall was only 1mm. Bright sunshine was scanty in the eastern districts, abundant in the west. In Scotland West the daily mean was 10·2 hr., exactly 200 per cent. of the normal, while in England East the recorded amount, 3·0 hr., was only 52 per cent. of the normal.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E. Shoeburyness.†		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	3	4·7	8	1·4	3	3·4	4	2·4	3	2·6	0	—	2	1·9	9	2·5
North	25	4·7	11	2·8	20	3·4	19	2·5	23	4·2	25	3 3	16	2·6	13	2·3
West	26	4·1	13	4·6	27	3·9	18	2·6	23	3·0	18	5·1	17	5·6	17	4·2
East	2	6·5	9	2·2	0	—	3	0·6	2	0·7	7	1·7	6	1·7	2	2·4
Calm	0	—	6	—	1	—	5	—	2	—	0	—	4	—	6	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Deficient	Deficient	Very deficient	Deficient	Very deficient	Moderate	Moderate	Deficient	Moderate	Moderate	Deficient
	Rainfall ...	Light	Light	Light	Heavy	Moderate	Moderate	Very light	Light	Light	Light	Moderate	Light
	Sunshine ...	Very abundant	Moderate	Scanty	Very scanty	Scanty	Very scanty	Very abundant	Abundant	Abundant	Abundant	Abundant	Moderate

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SUMMER. 8 weeks from June 1st, 1919.	Warmth ...	0, 5, 3	1, 2, 5	3, 1, 4	2, 1, 5	2, 2, 4	1, 2, 5	1, 3, 4	2, 2, 4	1, 1, 6	1, 2, 5	1, 2, 5	1, 2, 5
	Rainfall ...	3, 1, 4	0, 5, 3	1, 2, 5	4, 2, 2	2, 4, 2	1, 4, 3	2, 1, 5	0, 3, 5	0, 5, 3	1, 4, 3	1, 5, 2	1, 4, 3
	Sunshine ...	2, 4, 2	3, 3, 2	1, 3, 4	2, 2, 4	2, 2, 4	2, 1, 5	3, 4, 1	2, 4, 2	3, 3, 2	2, 4, 2	4, 2, 2	0, 4, 4

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour

(24431—19.) Wt 162—833/512. 625. 7/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

['TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of R.-in-Days.	Rainfall in the Week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average	Earth 4 ft Mean.	Earth 4 ft Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																						
a, Islands.. a Lerwick	54	60	20th	48	26th	57·1	49·9	53·3	+ 0·8	4	0·69	18	+ 6									
a Houton Bay, Orkney	520	58	20, 21	43	22nd	54·9	46·0	50 1	—	—	—	—	—	Houton Bay ..	—	—	—	•	•	•	•	•
a Stornoway	31	60	20, 21, 22	48	20th	58·0	50·9	54·2	- 0·2	3	0·55	14	- 2	Stornoway ..	5·9	+ 1·3	35	•	•	•	•	•	•
a Castlebay, Barra I. ..	37	62	26th	51	20, 22, 26	58·3	51·4	54·6	—	1	0·04	1	—	Castlebay ..	7·9	—	48	•	•	•	•	•	•
b, Mainland. a Wick	81	60	20th	45	21st	56·7	48·0	52·1	- 2·1	3	0·14	4	- 9									
a Strathpeffer	125	70	25th	43	21st	65·0	47·7	55·8	- 0·6	1	0·03	1	- 11									
p Glencarron	500	70	25th	44	24th	61·4	47·1	53·8	- 0·6	2	0·24	6	- 22									
a Fort Augustus..	68	—	—	—	—	—	—	—	—	—	—	—	—									
p Fort William	171	74	25th	45	21st	66·9	47·7	56·6	- 0·1	1	0·06	2	- 23									
1. SCOTLAND, E.																						
a Nairn	82	65	20, 21	44	24th	62·1	47·4	54·2	- 1·6	2	0·20	5	- 9	Nairn	3·6	—	22	•	•	•	•	•	•
p Gordon Castle ..	101	65	20, 21	46	21st	59·6	49·0	53·9	- 2·0	3	0·14	4	- 14	Gordon Castle..	3·6	—	22	•	•	•	•	•	•
a Aberdeen	46	65	21st	49	21st	60·4	50·9	55·3	- 0·5	3	0·47	12	- 3	Aberdeen ..	2·4	- 2·2	15	0	46	•	•	53·6	+0·1
a Balmoral	930	67	25th	39	21st	60·9	45·3	52·6	- 1·0	2	0·10	3	- 13	Balmoral ..	•	•	•	0	36	•	•	•	•
p Crieff	432	75	25th	42	21st	68·1	47·3	57·0	- 0·1	0	0·00	0	- 19	Crathes	2·5	- 1·9	15	0	43	53·6	+0·3	54·3	-0·5
a Dundee	244	71	25th	43	22nd	68 0	47·3	56·9	- 0·3	0	0·00	0	- 17	Dundee	7·4	—	45	0	37	—	•	•	•
a Leith	30	66	24th	46	21st	63·7	49·9	56·3	- 1·5	1	0·01	0·3	- 15	Leith	—	—	—	0	44	•	•	•	•
p Edinburgh	441	66	24th	46	21, 22	63·7	49·3	56 0	- 0·1	1	0·02	0·4	- 15	Edinburgh ..	6·5	+ 1·8	40	0	40	•	•	•	•
a West Linton	769	68	24th	37	20th	64·0	42·1	52·3	- 1·5	0	0·00	0	—	West Linton ..	6 1	—	38	0	33	•	•	•	•
p Marchmont	498	67	23rd	44	21st	63·0	48·1	55·0	- 0·8	2	0·03	1	- 16	Marchmont .	6·6	+ 1·9	41	•	•	•	•	•	•
6. a, SCOTLAND, W.																						
a Ford (Argyll)	149	71	25th	37	20th	64·0	45·0	53·8	—	2	0·20	5	—	Ford (Argyll) ..	•	•	•	1	30	59·2	—	54·7	—
p Glasgow Observatory	180	75	25th	46	20, 21	68·7	49·0	58·2	+ 0·8	1	0·02	1	- 17	Glasgow.. ..	9·6	+ 5·4	59	0	34	•	•	•	•
p Rothesay	200	72	25th	44	20th	64·6	48·4	55·9	- 1·3	2	0·06	2	- 21	Rothesay ..	10·4	—	64	0	37	58·4	—	55·0	-0·4
a Kilmarnock	90	72	24, 25	38	20th	67·7	45·0	55·6	- 0·9	0	0·00	0	- 19	Kilmarnock ..	10·3	—	63	•	•	58·8	—	54·0	—
a Colmonell	170	68	24, 25	40	20th	63·9	48·0	55·4	- 0·7	1	0·02	1	- 17	Colmonell ..	•	•	•	0	37	•	•	•	•
p Cally, Gatehouse ..	120	75	24th	20	21st	67·9	47·3	56·9	+ 0·5	0	0·00	0	- 21	Dumfries ..	6·2	—	39	0	35	58·1	-2·7	54·8	-4·1
p Dumfries	180	74	25th	43	21st	67·6	48·4	57·3	- 1·0	0	0·00	0	- 18	Eskdalemuir ..	7·4	—	45	0	32	•	•	•	•
a Eskdalemuir	794	69	24-26	37	20th	65·4	45·0	54·5	—	0	0·00	0	—									
b, I. OF MAN p Douglas	277	66	26th	47	20, 21	61·9	49·7	55·4	- 1·7	1	0·02	1	- 17	Douglas	10·8	+ 5·0	68	0	43	•	•	•	•
2. ENGLAND, N.E.																						
a North .. a Alnwick Castle ..	210	67	21st	43	21st	62·0	49·4	55 3	- 1·8	5	0·23	6	- 14									
a Tynemouth	71	66	21st	46	21, 22	59·0	49·3	53·8	- 3·4	3	0·13	3	- 15	Cockle Park ..	4·0	- 0·9	25	0	42	57·4	-0·5	54·7	-0·6
a Durham	336	66	21, 24	45	22nd	63·6	49·3	56·0	- 1·9	2	0·15	4	- 15	Durham	4·8	+ 0·1	30	0	38	•	•	•	•
p Rounton	249	66	21st	42	23rd	61·0	48·3	54·2	- 3·1	3	0·19	5	- 16	Rounton	•	•	•	0	40	57·9	•	•	•
a West Witton	605	65	26th	46	26th	62·7	50·1	56·0	—	2	0·28	7	—	West Witton ..	•	•	•	0	43	58·3	—	52·6	—
p Scarborough	100	68	22nd	50	21st	62·0	51·9	56·6	- 2·1	3	0·50	13	- 5	Scarborought ..	3·8	- 1·3	24	•	•	•	•	51·9	—
p York	56	67	21st	47	21st	63·0	51·4	56·8	- 2·9	3	0·38	10	- 8	York	3·1	- 1·7	19	—	—	59·2	-0·4	55·9	-0·8
b, South .. a Spurn Head	26	63	21st	50	26th	59 0	52·0	55·3	- 4·0	5	0·67	17	+ 3	Spurn Head ..	1·3	—	8	•	•	•	•	•	•
a Lincoln	58	66	21, 22, 24	47	21st	63·4	52·6	57·6	- 2·7	3	0·28	7	- 10	Lincoln	•	•	•	0	45	59·9	-0·9	56·6	-0·5
a Fulbeck	180	67	21st	43	26th	64·1	50·3	56·7	- 3·4	6	0·76	19	+ 1	Fulbeck* ..	3·1	- 2·6	19	•	•	—	—	—	—
														Skegness ..	2·6	- 3·5	16	•	•	•	•	•	•
3. ENGLAND, E.																						
p Cromer	196	65	21st	50	26th	59·4	51·6	55·2	- 4·6	5	0·62	16	0	Cromer	2·6	- 3·3	16	•	•	•	•	•	•
a Little Massingham ..	280	65	21st	47	21, 25	58·7	49·7	53·9	- 6·2	5	1·76	45	+ 26	Lit. Massingham	2·7	- 2·9	17	•	•	•	•	•	•
a Yarmouth	13	68	21st	51	23, 25, 26	61·3	52 7	56·7	- 3·5	5	0·95	24	+ 8	Yarmouth ..	3·0	—	19	0	50	60·3	-3·6	57·9	-2·8
a Norwich	93	67	20, 21	48	25th	61·4	52·0	56·4	- 4·3	5	1·08	27	+ 10	Norwich ..	2·8	—	18	0	41	61·3	•	•	•
a Geldeston	37	68	21st	48	25th	62·4	51·0	56·3	- 4·0	5	0 95	24	+ 9	Geldeston ..	2·8	- 3·1	18	•	•	•	•	•	•
p Cambridge	41	68	21st	49	21, 26	62·0	51·9	56·8	- 4·5	5	1·48	38	+ 23	Cambridge ..	2·4	- 3·4	15	0	44	60·8	-2·1	57·9	-1·6
a Clacton-on-Sea ..	54	68	21st	48	25th	62·7	52·4	57·2	- 3·7	4	0·99	25	+ 12	Clacton	3·2	- 3·2	21	0	41	59·8	-1·4	58·2	-1·4
a Rothamsted	424	65	26th	47	26th	61·6	50·6	55·7	- 4·3	5	0·90	23	+ 7	Rothamsted ..	3·8	- 2·1	24	0	43	—	•	58·2	•
p Tottenham	51	67	21st	50	21st	63·8	53·1	58·0	—	4	0·44	11	—	Tottenham ..	3·7	—	24	0	45	•	•	59·1	-1·7
														S'thend-on-Sea	2·6	—	17	0	47	61·4	-4·9	—	—
4. MIDLAND COUNTIES.																						
a North .. a Harrogate	479	62	21, 24, 26	45	21st	60·6	49 9	54·9	- 3·1	2	0·15	4	- 17	Harrogate ..	4·0	- 1·1	25	0	42	56·5	-1·0	55·2	-0·6
p Sheffield	429	65	21st	48	26th	62·9	51·3	56·7	—	4	0·65	16	—	Sheffield.. ..	4·2	- 0·9	26	0	43	58·0	-1·1	54·2	-0·7
p Buxton	987	—	—	—	—	—	—	—	—	—	—	—	—	Buxton	—	—	—	—	—	—	—	—	—
b, East .. a Bawtry	65	65	20, 21, 24	45	26th	63·6	49·4	56·0	- 4·0	3	0·38	10	- 8	Worksop ..	3·5	- 1·1	22	0	37	59·2	—	56·0	—
a Nottingham	82	66	26th	46	21st	62·9	51·9	57·0	- 3·2	3	0·83	21	+ 2	Nottingham ..	3·3	- 1·8	21	0	43	58·1	-2·8	57·1	-0·9
p Birmingham, Edgbsn.	535	72	26th	48	21, 26	63·4	50·3	56·4	- 3·6	2	0·40	10	- 9	Birmingham ..	2·6	- 1·8	17	0	39	54·4	-1·9	52·0	-0·9
a Raunds	203	67	21, 26	44	26th	63·1	50·0	56·1	- 5·0	4	0·80	20	0	Raunds	2·8	—	18	0	37	60·1	—	55·0	—
p Oxford	208	71	26th	45	26th	64·9	50·7	57 3	- 4·0	4	0·27	7	- 11	Oxford	3·9	- 1·8	25	0	40	•	•	•	•
														Malvern ..	3·7	—	24	0	42	60·4	—	58·9	—
c, West .. a Cheadle (N. Staffs.) ..	646	72	26th	43	26th	63·4	48·6	55·5	- 2·8	2	0·40	10	- 14	Cheadle	•	•	•	0	38	•	•	•	•
p Tenbury	313	71	26th	42	25th	67·4	48·3	57·2	- 2·3	2	0·40	10	- 8	Tenbury	•	•	•	0	38	59·9	—	—	—
p Ross-on-Wye ..	201	72	26th	48	26th	67·7	50·0	58·2	- 2·5	4	o·16	4	- 14	Ross-on-Wye ..	4·3	—	28	0	43	—	—	—	—
a Clifton	226	72	25th	51	20th	66·9	53·3	59·6	- 2·6	2	0·13	3	- 25	Clifton	5·5	—	35	0	50	•	•	•	•
5. ENGLAND, S.E.																						
a Marlborough	424	70	26th	43	21, 26	65·1	49·0	56·5	- 2·5	4	0·48	12	- 5	Worthing ..	4·4	- 2·5	29	0	42	60·3	-3·8	58·0	-1·6
p Salisbury (Wilton) ..	180	72	26th	46	21, 26	66·4	51·3	58·3	- 2·8	4	0·22	6	- 11	Marlborough ..	1·7	- 3·9	11	0	36	59·6	—	56·6	—
a Wisley, Surrey ..	150	67	26th	47	21st	64·4	51·9	57·7	- 3·4	4	0·43	11	- 2	Salisbury ..	•	•	•	0	43	61·4	•	•	•
a Tunbridge Wells ..	354	68	21st	47	21st	63·0	51·0	56·6	- 4·3	4	0·42	11	- 4	Wisley	3·5	- 2·7	22	0	38	59·4	-3·3	56·7	-2·6
a Margate	51	67	21, 26	52	26th	63·3	54·1	58·4	- 3·6	5	0·85	22	+ 9	Tunbridge Wells	3·1	- 3·2	20	0	40	59·0	-4·8	56·9	—
														Margate	3·2	- 2·8	21	0	50	61·7	-0·5	60·4	+1·4
a Dungeness	21	65	21st	47	21st	62·9	51·7	56·9	- 4·1	5	0·87	22	+ 9	Folkestone ..	2·7	—	17	•	•	•	•	54·0	—
p St. Leonards	178	66	21st	47	21st	62·6	51·3	56·6	- 4·7	7	1·02	26	+ 11	St. Leonards ..	3·2	- 3·7	21	0	44	60·4	—	58·2	—
p Southampton	64	72	26th	49	21, 26	66·6	52·6	59·1	- 3·5	2	0·17	4	- 12	Southampton ..	3·6	- 2·9	23	0	38	•	•	•	•
a Ventnor	59	67	23, 24	52	20th	64 9	54·0	59·1	- 2·8	4	0·32	8	- 6	Ventnor	4·8	- 1·8	31	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	69	26th	48	21st	63·1	52·7	57·5	- 4·5	6	0·78	20	+ 5	Richmond ..	3·9	- 2·1	25	0	39	59·7	-2·5	56·3	-1·8
a Westminster	27	68	21, 26	47	21st	64·9	54·0	59·1	- 3·6	4	0·44	11	- 4	Westminster ..	3·7	- 1·7	24	0	44	•	•	•	•
ag Greenwich	149	69	21, 26	48	21st	64·6	52·4	58·1	- 5·2	6	0·75	19	+ 6	Greenwich ..	3·6	— 4·0	23	0	41	•	•	•	•
a Hampstead	450	66	21, 26	46	21st	62·4	50·4	56·0	—	4	0·54	14	—	Hampstead ..	3·4	—	22	0	38	•	•	•	•
ag Camden Square ..	110	72	26th	46	21st	66·9	52·9	59·4	- 4·1	5	0·54	14	- 2	Camden Square	3·4	- 1·8	22	0	45	•	•	•	•
7. a, ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	71	24th	44	20, 21	64·7	48·0	55·8	- 2·0	0	0·00	0	- 25	Aspatria.. ..	6·5	+ 1·4	40	0	40	58·1	-1·9	54·0	-1·2
p Newton Rigg	559	74	26th	44	21st	67·1	48·4	57·1	- 0·5	0	0·00	0·1	- 21	Newton Rigg ..	6·2	+ 1·1	38	0	35	59·2	-0·8	55·2	-0·4
p Stonyhurst	375	70	25, 26	50	21st	65·1	52·4	58·3	+ 0·1	2	0·22	6	- 23	Stonyhurst ..	5·8	+ 0·8	36	0	43	•	•	•	•
p Blackpool	66	68	25, 26	50	25th	64·6	53·1	58·5	- 0·5	1	0·10	3	- 18	Blackpool ..	8·3	+ 2·3	52	0	42	59·7	—	54·3	—
a Southport	37	66	25, 26	51	22nd	63·0	53·4	57·9	- 1·2	1	0·14	4	- 17	Southport ..	8·1	+ 2·3	51	0	46	63·3	-0·1	59·7	-0·9
														Hoylake ..	—	—	—	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	66	25, 26	50	22nd	62·4	52·4	57·1	- 2·6	2	0·39	10	- 9	Liverpool ..	7·5	—	47	0	45	•	•	•	•
a Hawarden Bridge ..	22	70	26th	50	21, 26	64·9	51·4	57·7	- 2·7	1	0·24	6	- 10	Manchester(City)	4·8	+ 0·5	29	0	44	59·3	-1·7	58·7	+0·1
p Manchester (Whit. Pk.)	125	74	26th	48	21, 26	65·9	52·1	58·5	- 1·8	2	0·24	6	- 16	Whitworth Park	3·8	- 0·6	24	•	•	•	•	•	•
b, NORTH WALES.																						
p Llandudno	16	66	25, 26	50	26th	63·1	51·9	57·1	- 2·8	1	0·45	12	- 5	Llandudno ..	7·9	+ 2·2	50	•	•	•	•	•	•
a Holyhead	15	67	25th	50	21st	63·0	52·0	57·1	- 1·4	1	0·31	8	- 11	Holyhead ..	8·1	—	51	0	41	•	•	•	•
a Beddgelert	309	69	25, 26	43	25th	63·0	48·3	55·1	—	2	0·50	13	—	Aberdovey ..	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—									

† Earth temperature at 3 feet.

* Earth Temperatures refer to Ranceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground for Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.				Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.			Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
8. *a*, SOUTH WALES.																							
a Aberystwyth	59	66	26th	52	20th	61·4	53·0	56·9	—	1	0·38	10	—	Aberystwyth ..	8·9	+ 3·6	57	•	•	•	•	•	•
a Rhayader	757	71	26th	41	25, 26	64·1	47·0	55·0	—	2	0·29	7	—	Rhayader ..	7·1	—	45	1	29	•	•	•	•
a St. Ann's Head	149	67	25th	50	25th	62·0	51·6	56·4	- 2·3	2	0·09	2	- 17	St. Ann's Head	9·2	+ 3·2	59	•	•	•	•	•	•
p Cardiff	202	73	26th	49	21st	65·0	52·1	58·1	- 2·1	2	0·10	3	- 21	Cardiff	7·0	—	45	0	42	60·3	-0·8	57·5	-1·1
b, ENGLAND, S.W.																							
a Bath	66	75	26th	48	21, 26	68·7	51·9	59·7	- 1·2	2	0·14	4	- 14	Bath	•	•	•	—	—	62·0	-2·0	59·5	-1·0
a Shaftesbury	722	71	26th	48	20th	64·1	50·7	56·9	- 2·8	3	0·67	17	- 2	Shaftesbury ..	•	•	•	•	•	59·4	—	57·1	—
a Arlington	613	73	26th	46	25th	64·1	50·1	56·6	- 1·9	2	0·97	25	- 5										
a Newquay	190	67	26th	48	26th	63·0	54·6	58·5	- 1·6	2	0·09	2	- 15	Newquay ..	8·8	+ 2·7	57	0	45	61·9	—	58·0	—
a Cullompton	202	76	25th	46	24, 25	69·0	49·6	58·6	- 1·8	3	0·30	8	- 12	Cullompton ..	6·4	+ 1·0	42	0	41	61·3	•	•	•
a Portland Bill	19	65	25th	54	21, 23	62·9	54·7	58·5	- 1·9	1	0·04	1	- 12	Weymouth ..	6·0	—	39	•	•	59·4	—	57·1	—
p Plymouth	116	71	24th	52	23rd	65·7	54·0	59·4	- 1·5	2	0·06	2	- 18	Plymouth ..	7·8	+ 1·7	51	0	45	62·0	-2·1	58·4	—
a Falmouth	167	74	26th	51	23rd	68·9	53·6	59·8	- 0·5	2	0·10	3	- 18	Falmouth ..	8·7	+ 2·2	56	0	42	63·5	—	61·2	—
9. IRELAND, N.																							
a West .. *a* Malin Head	208	59	21st	51	20, 26	57·3	51·7	54·3	- 2·1	2	0·06	1	- 17	Malin Head ..	4·9	—	30	•	•	•	•	•	•
a Blacksod Point ..	327	64	24th	50	20, 23	60·9	52·1	56·2	- 1·2	4	0·60	15	- 7	Markree Castle	5·1	+ 0·9	32	0	36	60·7	+0·3	55·8	-0·6
p Markree Castle ..	122	65	24, 25	42	20th	62·7	49·1	55·4	- 1·3	3	0·21	5	- 17										
b, East .. *p* Armagh	196	73	25th	45	21st	67·4	49·6	57·9	+ 0·5	1	0·04	1	- 18	Armagh	6·4	+ 2·0	40	0	38	59·8	-1·4	55·8	-1·6
a Donaghadee	101	64	21st	44	21st	61·1	49·9	55·1	- 2·0	0	0·00	0	- 18										
10. IRELAND, S.																							
p Dublin, City	47	68	25th	50	20, 25	64·9	51·4	57·7	- 2·3	3	0·48	12	- 7	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
a Birr Castle	175	72	25th	44	23rd	66·4	49·7	57·5	- 0·8	4	0·87	22	0	Phœnix Park ..	6·9	+ 1·7	43	0	33	•	•	•	•
a Kilkenny	212	73	25th	44	23rd	68·3	49·7	58·4	- 0·4	2	0·38	10	- 11	Dublin City ..	•	•	•	0	46	•	•	•	•
a Waterford	120	—	—	—	—	—	—	—	—	4	0·22	6	- 17	Birr Castle ..	5·6	+ 1·2	35	0	37	•	•	•	•
p Seskin, Carrick-on-Suir	541	75	26th	44	20th	69·1	50·3	59·1	—	2	0·34	9	—	Seskin	6·7	—	43	0	42	•	•	•	•
a Cahir	199	73	25th	45	20th	68·7	50·6	59·0	+ 0·1	3	0·58	15	—										
a Foynes	50	70	26th	47	23rd	66·3	52·4	58·9	+ 0·1	4	0·57	14	- 9										
a Cahirciveen (Val. Obs.)	30	69	25th	46	23rd	64·4	52·4	58·0	- 0·8	4	0·69	17	- 11	Cahirciveen ..	6·7	+ 1·8	43	0	42	•	•	•	•
a Killarney	174	74	26th	47	22nd	68·3	51·6	59·4	+ 0·3	4	0·88	22	- 3	Ballinacurra ..	5·5	+ 0·3	35	•	•	•	•	•	•
a Roche's Point	32	70	24th	50	20th	68·9	54·1	60·1	+ 1·1	4	0·17	4	- 18										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	67	26th	53	23rd	64·3	55·3	59·5	- 1·0	2	0·06	2	- 13	Scilly	8·3	+ 1·9	54	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	—	—	—	—	—	—	—	—	—	—	—	—	St. Heliers ..	—	—	—	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	72	26th	53	23, 26	66·3	54·9	60·2	- 1·7	2	0·07	2	- 12	Guernsey† ..	8·6	+ 1·3	56	0	47	61·6	-2·0	59·4	-1·4

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, July 26th, 1919.

DISTRICT AND STATION.	Height.			Distribution of Wind.†								Extreme Velocities.							
				More than 17 m/s or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.			
	Above Mean Sea Level	Above Ground.	Above Building.	Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Veer from N.	Speed.	Mid Time.		Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	22	3	126	39	0	0	293	12	22	1	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	7	136	25	0	315	7	22	8	16	22	8	50
Aberdeen	153	105	52	—	—	22	2	65	86	15	0	293	11	22	8	30	22	8	25
Edinburgh	485	39	31	—	—	—	—	26	109	33	0	304	9	22	14	13	22	14	10
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	22	2	31	89	46	0	300	11	22	14	16	22	14	15
Paisley	188	81	15	—	—	—	—	24	111	33	0	315	11	22	12	19	22	12	30
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	26	108	29	5	326	7	22	24	14	22	13	40
South Shields	72	61	12	—	—	—	—	60	84	11	13	315	9	22	15	17	22	13	40
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	23	1	74	91	2	0	—	11	23	18	16	23	17	10
Shoeburyness	103	90	‡	—	—	—	—	87	73	8	0	259	10	22	8	17	22	7	20
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	21	111	36	0	247	8	22	6	15	22	5	30
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	47	85	36	0	—	9	22	7	16	20	14	5
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	20, 22	7	92	21	40	8	260	15	22	6	18	22	5	30
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	6	124	38	0	236	6	22	7	12	21	14	30
																	22	7	50
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	—	31	137	0	247	5	22	12	12	22	15	20
Fleetwood (Cup Anr.) ..	109	44	—	22	1	20, 22, 23	42	62	51	12	0	304	18	22	23	—	—	—	—
Southport	80	62	48	—	—	20, 22, 23	58	53	51	6	0	304	15	22	16	19	22	16	35
Holyhead	60	40	‡	—	—	23	1	63	89	15	0	326	11	23	4	16	23	0	15
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	21, 22	17	66	68	17	0	270	13	22	13	20	22	10	0
Plymouth	185	88	2	—	—	—	—	12	103	53	0	—	8	22	8	15	22	9	35
Lyme Regis (Rousdon)	600	65	36*	—	—	—	—	20	81	67	0	—	7	22	6	14	22	9	35
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	—	—	62	77	29	0	259	11	23	5	—	—	—	—
Quilty	100	40	‡	—	—	22	2	62	77	20	7	—	11	22	2	16	22	1	35
Cahirciveen (Val. Obs.)	98	41	‡	—	—	21	1	46	83	38	0	255	11	21	11	17	21	10	55
Weaver Pt.	160	30	‡	—	—	22	1	102	62	0	3	—	11	22	6	17	21	18	5
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	62	58	48	0	293	10	22	10	14	21	18	50

More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.

* Above tops of trees.

** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

THIRTIETH WEEK of 1919—July 20th to July 26th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Mean Pressure at M.S.L.
	At any "D.-V." Station.		Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	74	43	89·1	82·2	85·4	− 0·3	86	− 4	0	0	2	− 2	0·29	8	− 9	5·9	+1·3	35	1019
Eastern.																			
1. SCOTLAND, EAST ...	75	37	90·1	81·6	85·6	− 0·7	88	− 11	0	0	2	− 2	0·12	3	− 14	4·8	+0·3	27	1018
2. ENGLAND, N.E.	68	42	89·6	83·3	86·2	− 1·5	97	− 18	0	0	4	0	0·37	9	− 9	3·6	−1·6	22	1017
3. ENGLAND, EAST ...	68	47	89·4	83·9	86·4	− 2·4	99	− 31	0	0	5	+ 1	1·02	26	+ 11	3·0	−2·8	19	1016
4. MIDLAND COUNTIES ...	72	42	91·0	83·1	86·8	− 1·6	104	− 20	0	0	3	− 1	0·39	10	− 9	3·9	−1·3	25	1018
5. ENGLAND, S.E.	72	43	90·9	84·1	87·3	− 2·0	110	− 25	0	0	5	+ 2	0·56	14	− 1	3·4	−3·0	22	1018
Western.																			
6. SCOTLAND, WEST ...	75	37	91·8	81·7	86·4	− 0·5	99	− 7	0	0	1	− 3	0·04	1	− 19	10·2	+5·1	63	1019
7. ENGLAND, N.W.	74	44	91·0	83·7	87·1	− 0·8	108	− 9	0	0	1	− 3	0·22	6	− 16	6·9	+1·7	43	1019
8. ENGLAND, S.W.	76	41	91·5	83·8	87·4	− 1·1	111	− 14	0	0	2	− 2	0·28	7	− 14	8·1	+2·4	52	1020
9. IRELAND, NORTH ...	73	42	90·0	83·2	86·4	− 0·5	99	− 7	0	0	2	− 3	0·30	7	− 13	5·8	+1·4	36	1021
10. IRELAND, SOUTH ...	74	44	92·3	83·8	87·8	− 0·2	116	− 3	0	0	4	0	0·54	14	− 9	6·2	+1·3	39	1023
11. ENGLISH CHANNEL ...	72	53	91·5	85·8	88·5	− 0·8	125	− 11	0	0	2	− 2	0·07	2	− 13	8·5	+1·5	55	1023

THE SEASON (Summer).—Aggregates, &c., for the Period of 8 Weeks, June 1st to July 26th, 1919.

0. SCOTLAND, NORTH ...	74	38	87·8	81·2	84·3	− 0·7	579	− 80	0	− 1	32	0	5·34	137	− 3	4·6	−0·1	26	1016
Eastern.																			
1. SCOTLAND, EAST ...	78	29	89·8	81·0	85·1	− 0·8	661	− 79	0	0	25	− 4	2·58	67	− 51	6·0	+0·5	35	1016
2. ENGLAND, N.E.	84	38	90·8	82·4	86·3	− 0·6	784	− 53	0	0	27	+ 2	3·12	79	− 27	5·3	−0·7	32	1017
3. ENGLAND, EAST ...	84	32	91·3	82·6	86·6	− 1·3	815	−131	0	0	23	− 2	3·78	97	− 4	5·8	−0·9	36	1018
4. MIDLAND COUNTIES ...	84	35	91·4	82·5	87·0	− 0·7	850	− 69	0	0	23	− 2	3·71	94	− 13	5·5	−0·5	34	1018
5. ENGLAND, S.E.	82	35	91·9	83·0	87·1	− 1·2	863	−119	0	0	22	− 1	2·92	74	− 21	5·8	−1·3	36	1018
Western.																			
6. SCOTLAND, WEST ...	76	34	89·8	81·9	85·5	− 0·9	706	− 94	0	0	27	− 3	5·06	128	− 19	6·9	+0·9	41	1017
7. ENGLAND, N.W.	83	36	90·1	83·0	86·3	− 0·9	782	− 85	0	0	23	− 4	2·85	72	− 54	6·0	−0·2	36	1019
8. ENGLAND, S.W.	81	35	91·1	83·1	86·8	− 0·8	833	− 81	0	0	21	− 6	2·91	73	− 52	7·1	+0·5	44	1020
9. IRELAND, NORTH ...	73	36	89·0	82·4	85·5	− 0·9	697	− 99	0	0	29	− 5	4·66	118	− 18	4·8	−0·3	29	1019
10. IRELAND, SOUTH ...	79	36	90·8	83·2	86·7	− 0·7	823	− 67	0	0	26	− 3	3·73	94	− 39	5·6	0·0	34	1021
11. ENGLISH CHANNEL ...	80	46	90·7	84·7	87·5	− 0·8	896	− 86	0	0	16	−10	2·27	57	− 37	7·2	−0·6	46	1022

THE YEAR 1919.—Aggregates, &c., for the Period of 30 Weeks, December 29th, 1918, to July 26th, 1919.

0. SCOTLAND, NORTH ...	78	11	82·5	76·3	79·3	− 0·7	970	−131	680	+ 141	124	−12	20·97	535	−135	3·8	+0·2	29	1011
Eastern.																			
1. SCOTLAND, EAST ...	78	5	83·2	75·7	79·3	− 0·9	1084	−170	787	+ 170	106	−11	13·92	358	− 53	4·1	−0·1	31	1012
2. ENGLAND, N.E.	84	11	84·1	77·1	80·4	− 0·6	1296	−114	578	+ 106	111	+ 6	14·01	356	+ 28	4·0	−0·5	31	1012
3. ENGLAND, EAST ...	84	10	84·7	77·2	80·8	− 0·8	1418	−226	580	+ 86	105	+ 2	14·56	373	+ 56	4·3	−0·5	33	1013
4. MIDLAND COUNTIES ...	84	9	84·7	77·0	80·8	− 0·7	1469	−172	628	+ 106	102	0	17·00	432	+ 77	4·0	−0·3	31	1013
5. ENGLAND, S.E.	82	16	85·2	77·9	81·4	− 0·7	1570	−180	451	+ 72	105	+ 6	16·78	425	+ 81	4·3	−0·7	33	1013
Western.																			
6. SCOTLAND, WEST ...	83	14	84·0	77·1	80·4	− 0·7	1234	−156	539	+ 123	113	−11	19·87	504	−100	4·0	+0·2	34	1013
7. ENGLAND, N.W.	83	16	84·1	77·8	80·8	− 0·7	1344	−148	494	+ 112	106	− 4	15·78	402	− 43	4·3	−0·1	33	1013
8. ENGLAND, S.W.	81	15	84·9	78·2	81·4	− 0·7	1479	−183	409	+ 108	110	0	21·21	540	+ 51	4·8	0·0	37	1014
9. IRELAND, NORTH ...	76	22	84·2	77·7	80·8	− 0·7	1277	−172	437	+ 97	129	− 6	17·83	449	− 52	4·0	0·0	31	1012
10. IRELAND, SOUTH ...	80	22	85·2	78·5	81·7	− 0·6	1524	−178	362	+ 102	125	+ 6	18·64	475	− 54	4·2	−0·3	33	1014
11. ENGLISH CHANNEL ...	80	26	85·5	80·3	82·8	− 0·5	1727	−178	137	+ 32	113	− 2	22·26	563	+164	5·1	−0·6	39	1015
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: August 1st, 1919.

FOR OFFICIAL USE.

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ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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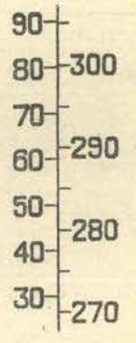
I.—GENERAL SUMMARY. [First published in 1878.]

For the first few days of the week anticyclonic conditions, with Northerly breezes and fair, cool weather prevailed generally. From Wednesday the high pressure off our Western coasts receded as a depression from the Atlantic passed North-Eastwards between Iceland and Scotland. There was a brisk rise of temperature associated with this change of type, and the wind, which backed to S.W., became fresh or strong in force generally, especially over northern England: at Catterick Camp, Yorkshire, on August 1st, phenomenal dust-storms were experienced, clouds of dust being blown across country at a rate of 40 miles per hour; rather heavy rain fell in Scotland W. and showers in other districts. The highest temperatures of the week occurred on Tuesday or Wednesday in the north and west, and on the following days in the south and east, readings of 299 a. or 300 a. being common over the greater part of England, but at many stations on the sea coast or on high ground the highest maxima were only about 294 a. Minima in the screen of 277 a. or less were experienced in most districts, the actual lowest reading being 272 a. at West Linton on July 29th. The minima on Friday night over England as a whole were very high, about 288 a. or 289 a. The mean temperature for the week was everywhere below the normal, the greatest deficit being 1·7 a. in England E. The total rainfall in Scotland W. slightly exceeded the normal, but in all other districts there was a deficit, the greatest divergencies being shown over Ireland and the West of England. With the exception of the week ended July 5th the rainfall in England N.W. has been less than the normal since the week ended May 3rd, and newspapers state that in Westmoreland the drought is becoming alarming. Over England generally there was deficiency of bright sunshine, England E. with 3·7 hour per day being 3 hours less than the normal. Solar halos were observed at Tenbury, Ross-on-Wye and Oxford on the 31st.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E. Shoeburyness.†		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	8	4·5	12	2·9	11	2·0	7	2·2	6	4·2	2	2·0	6	2·7	4	3·2
North	16	4·6	7	1·9	14	2·6	14	2·0	17	2·3	20	2·4	11	1·8	8	2·2
West	17	5·0	15	7·5	17	4·2	13	2·6	13	6·0	12	3·8	15	7·6	12	2·8
East	0	—	7	2·1	3	2·8	3	0·7	7	3·4	12	1·6	6	2·2	1	0·8
Calm	0	—	5	—	3	—	5	—	2	—	0	—	6	—	14	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c., is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Moderate	Deficient	Deficient	Moderate	Deficient	Deficient	Deficient	Moderate	Moderate	Moderate	Deficient
	Rainfall ...	Moderate	Light	Very light	Light	Very light	Very light	Moderate	Light	Very light	Very light	Very light	Light
	Sunshine ...	Very scanty	Abundant	Scanty	Scanty	Scanty	Moderate	Moderate	Moderate	Moderate	Abundant	Abundant	Moderate

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
SUMMER. 9 weeks from June 1st, 1919.	Warmth ...	0, 6, 3	1, 3, 5	3, 1, 5	2, 1, 6	2, 3, 4	1, 2, 6	1, 3, 5	2, 2, 5	1, 2, 6	1, 3, 5	1, 3, 5	1, 2, 6
	Rainfall ...	3, 2, 4	0, 5, 4	1, 2, 6	4, 2, 3	2, 4, 3	1, 4, 4	2, 2, 5	0, 3, 6	0, 5, 4	1, 4, 4	1, 5, 3	1, 4, 4
	Sunshine ...	2, 4, 3	4, 3, 2	1, 3, 5	2, 2, 5	2, 2, 5	2, 2, 5	3, 5, 1	2, 5, 2	3, 4, 2	3, 4, 2	5, 2, 2	0, 5, 4

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(24504—19.) Wt. 162—833/512. 625. 8/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of days.	Rainfall in the Week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts	Lowest Reading.	Earth 1 ft. Mean.	Deviation from Average.	Earth 4 ft Mean.	Deviation from Average.
	Ft.	°F.		°F		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																						
a. Islands — a Lerwick	54	57	28, 30, 2	47	29th	55·7	49·4	52·3	− 0·9	5	0·37	9	− 7									
a Houton Bay, Orkney	520	58	28–30	44	29th	56·0	46·9	51·1	—	—	—	—	—	Houton Bay	—	—	—	•	•	•	•	•
a Stornoway	31	60	31st	50	27–30	58·4	51·4	54·7	− 0·3	4	0·59	15	− 6	Stornoway	1·5	− 2·6	9	•	•	•	•	•
a Castlebay, Barra I.	37	62	28th	48	28th	58·1	50·9	54·3	—	4	0·39	10	—	Castlebay	4·8	—	30	•	•	•	•	•
b. Mainland — a Wick	81	66	31st	47	28, 29	58·4	49·1	53·4	− 1·5	4	0·61	15	− 1									
a Strathpeffer	125	75	29th	43	29th	65·9	50·4	57·6	+ 0·7	1	0·27	7	− 8									
p Glencarron	500	—	—	—	—	—	—	—	—	—	—	—	—									
a Fort Augustus	68	—	—	—	—	—	—	—	—	—	—	—	—									
p Fort William	171	71	29th	41	28th	63·6	48·6	55·6	− 1·6	4	1·16	29	− 4									
1. SCOTLAND, E.																						
a Nairn	82	73	30th	42	29th	65·6	50·6	57·6	+ 0·6	3	0·19	5	− 8	Nairn	6·3	—	39	•	•	•	•	•
p Gordon Castle	101	71	30th	41	29th	64·6	49·1	56·3	− 0·8	3	0·21	5	− 11	Gordon Castle	5·1	—	32	•	•	•	•	•
a Aberdeen	46	70	1st	43	31st	64·1	48·9	56·0	− 0·9	2	0·37	9	− 5	Aberdeen	5·7	+ 0·6	35	0	37	•	•	53·7	−0·1
a Balmoral	930	75	30th	40	29th	65·3	46·0	55·0	+ 0·5	1	0·03	1	− 14	Balmoral	•	•	•	0	38	•	•	•	•
p Crieff	432	74	29th	43	28th	67·6	47·3	56·7	− 1·4	1	0·11	3	− 16	Crathes	5·9	+ 1·1	37	0	31	58·4	−0·2	54·4	−0·6
a Dundee	244	74	30th	40	29th	68·6	47·7	57·4	− 0·8	1	0·07	2	− 14	Dundee	6·7	—	42	0	37	59·0	•	•	•
a Leith	30	68	30th	46	29th	64·4	50·9	57·2	− 1·8	1	0·24	6	− 8	Leith	—	—	—	0	41	•	•	•	•
p Edinburgh	441	68	29th	48	28, 29, 31	63·1	49·6	55·9	− 1·4	1	0·11	3	− 12	Edinburgh	5·0	− 0·2	31	0	38	•	•	•	•
a West Linton	769	69	29th	31	29th	62·6	43·9	52·6	− 2·2	2	0·69	18	—	West Linton	4·4	—	28	1	30	•	•	•	•
p Marchmont	498	72	30th	41	30th	64·0	45·4	54·1	− 2·8	1	0·11	3	− 14	Marchmont	5·6	+ 0·4	35	•	•	•	•	•	•
6. a. SCOTLAND, W.																						
a Ford (Argyll)	149	66	29th	39	29, 31	61·5	45·1	52·7	—	4	2·14	54	—	Ford (Argyll)	•	•	•	1	30	59·2	—	55·0	—
p Glasgow Observatory	180	70	29th	46	29th	64·1	49·9	56·5	− 1·3	4	0·84	16	− 3	Glasgow	4·7	+ 0·2	30	0	34	•	•	•	•
p Rothesay	200	67	29, 30	46	31st	62·3	48·3	54·8	− 2·8	4	1·23	31	+ 7	Rothesay	4·2	—	26	0	40	59·3	—	55·4	−0·1
a Kilmarnock	90	70	29th	39	30th	63·9	47·1	54·9	− 1·9	3	0·63	16	− 4	Kilmarnock	4·5	—	28	•	•	59·5	—	54·6	—
a Colmonell	170	67	29th	36	29th	62·9	48·0	54·9	− 1·7	2	0·88	22	+ 3	Colmonell	•	•	•	0	34	•	•	•	•
p Cally, Gatehouse	120	71	29th	39	29th	64·6	47·3	55·4	− 1·4	3	0·66	17	− 5	Dumfries	5·3	—	34	0	34	59·1	−1·8	55·2	−3·8
p Dumfries	160	71	29, 30	43	29th	64·4	48·6	56·0	− 2·6	2	0·60	15	− 4	Eskdalemuir	5·2	—	33	1	29	•	•	•	•
a Eskdalemuir	794	69	29, 30	35	29th	61·7	43·3	51·9	—	2	0·70	18	—										
b. I. OF MAN p Douglas	277	66	29, 30	46	29th	63·0	50·3	56·2	− 1·4	1	0·08	2	− 17	Douglas	6·5	+ 0·3	42	0	41	•	•	•	•
2. ENGLAND, N.E.																						
a North — a Alnwick Castle	210	69	31, 2	40	30th	64·0	49·6	56·3	− 1·6	2	0·08	2	− 13									
a Tynemouth	71	70	31st	45	30th	61·4	50·1	55·4	− 2·8	2	0·17	4	− 9	Cockle Park	4·8	− 0·8	30	0	40	57·0	−1·2	54·8	−0·8
p Durham	336	79	30th	40	30th	65·6	47·9	56·1	− 2·5	2	0·10	3	− 10	Durham	5·2	− 0·2	33	0	34	•	•	•	•
p Rounton	249	75	30th	44	30th	63·6	48·1	55·3	− 2·7	2	0·09	2	− 12	Rounton	•	•	•	0	33	56·4	•	•	•
a West Witton	605	73	30th	41	30th	64·7	49·3	56·5	—	1	0·06	2	—	West Witton	•	•	•	0	38	57·4	—	52·9	—
p Scarborough	100	73	1st	50	27–29	64·7	52·6	58·2	− 1·3	1	0·08	2	− 11	Scarborough†	5·1	− 0·7	33	•	•	•	•	52·3	—
p York	56	75	31st	41	30th	65·4	50·1	57·2	− 3·2	1	0·02	1	− 11	York	3·8	− 1·6	24	—	—	58·3	−1·6	56·0	−1·0
b. South — a Spurn Head	26	74	31st	50	27–30	62·0	51·6	56·4	− 3·9	4	0·24	6	− 4	Spurn Head	1·3	—	8	•	•	•	•	•	•
a Lincoln	58	77	31st	46	31st	65·6	51·9	58·3	− 2·7	1	0·14	4	− 8	Lincoln	•	•	•	0	44	58·6	−2·8	56·7	−0·8
a Fulbeck	180	77	31st	47	31st	66·3	51·3	58·3	− 2·5	2	0·06	1	− 12	Fulbeck*	3·7	− 2·9	24	•	•	—	—	—	—
														Skegness	3·4	− 3·5	22	•	•	•	•	•	•
3. ENGLAND, E.																						
p Cromer	196	76	31st	47	31st	65·3	51·7	58·0	− 2·3	3	0·06	2	− 8	Cromer	2·5	− 4·2	16	•	•	•	•	•	•
a Little Massingham	280	75	31st	46	27–29	63·0	49·1	55·6	− 4·9	3	0·24	6	− 7	Lit. Massingham	3·1	− 3·3	20	•	•	•	•	•	•
a Yarmouth	13	77	31st	47	27th	64·7	51·0	57·4	− 3·2	2	0·12	3	− 8	Yarmouth	3·1	—	20	0	46	58·6	−5·7	57·0	−4·0
a Norwich	93	77	31st	47	27, 31	65·1	51·1	57·6	− 3·4	4	0·17	4	− 7	Norwich	3·4	—	22	0	42	59·5	•	•	•
a Geldeston	37	78	31st	44	27th	66·3	49·0	57·1	− 3·6	3	0·09	2	− 8	Geldeston	2·9	− 3·9	19	•	•	•	•	•	•
p Cambridge	41	77	31st	46	31st	66·1	52·1	58·6	− 2·8	3	0·02	1	− 9	Cambridge	4·0	− 2·7	26	0	43	60·2	−3·0	57·6	−2·2
a Clacton-on-Sea	54	78	2nd	49	28th	65·1	52·6	58·4	− 3·0	2	0·04	1	− 8	Clacton	4·5	− 2·9	29	0	46	58·9	−2·6	57·9	−2·1
a Rothamsted	424	74	31, 2	46	28, 31	65·9	50·7	57·8	− 2·5	1	0·02	1	− 10	Rothamsted	4·7	− 1·9	31	0	40	59·0	•	•	•
p Tottenham	51	80	2nd	50	28, 31	68·6	53·6	60·6	—	1	0·01	0	—	Tottenham	4·5	—	29	0	45	•	•	59·0	−2·1
														S'thend-on-Sea	4·6	—	30	0	49	60·9	−6·1	—	—
4. MIDLAND COUNTIES.																						
a North — a Harrogate	479	72	30, 31	41	30th	63·9	48·7	55·8	− 2·4	1	0·06	2	− 12	Harrogate	5·1	− 0·6	33	0	34	56·1	−1·6	55·1	−1·0
p Sheffield	429	74	31st	48	30th	64·4	51·0	57·2	—	2	0·09	2	—	Sheffield	4·5	− 1·2	29	0	37	57·5	−1·9	54·3	−1·1
p Buxton	987	71	31st	42	30th	62·4	47·3	54·3	—	3	0·89	23	+ 1	Buxton	4·8	—	31	0	38	57·9	−0·6	54·0	−0·8
b. East — a Bawtry	65	77	31st	43	31st	66·0	51·3	58·1	− 2·1	1	0·19	5	− 7	Worksop	3·9	− 1·3	25	0	32	59·0	—	56·0	—
a Nottingham	82	77	31st	48	31st	66·9	51·9	58·9	− 1·5	2	0·05	1	− 12	Nottingham	3·8	− 2·0	25	0	42	58·7	−2·5	57·0	−1·6
p Birmingham, Edgbsn.	535	75	31st	46	30th	67·0	51·3	58·6	− 1·5	0	0·00	0	− 13	Birmingham	3·7	− 1·3	24	0	35	55·1	−1·5	52·0	−1·2
a Raunds	203	79	31st	45	28th	68·6	49·6	58·4	− 2·8	3	0·09	2	− 12	Raunds	4·2	—	27	0	38	59·5	—	55·4	—
p Oxford	208	76	31, 1	49	31st	68·3	52·9	60·1	− 1·3	0	0·00	0	− 12	Oxford	5·1	− 1·3	33	0	41	•	•	•	•
														Malvern	5·4	—	35	0	45	61·7	—	59·0	—
c. West — a Cheadle (N. Staffs.)	646	75	31st	45	28–30	66·6	48·7	57·0	− 1·5	2	0·21	5	− 12	Cheadle	•	•	•	0	41	•	•	•	•
p Tenbury	313	76	1st	42	30, 31	69·9	51·4	60·0	+ 0·4	1	0·01	0	− 13	Tenbury	•	•	•	0	37	60·7	—	—	—
p Ross-on-Wye	201	77	2nd	45	31st	68·6	52·3	59·9	− 0·8	1	0·01	0·2	− 12	Ross-on-Wye	5·9	—	39	0	40	—	—	—	—
a Clifton	226	71	31st	51	31st	67·6	55·0	60·9	− 1·6	1	0·04	1	− 19	Clifton	6·5	—	42	0	51	•	•	•	•
5. ENGLAND, S.E.																						
a Marlborough	424	—	—	—	—	—	—	—	—	3	0·21	5	− 6	Worthing	6·1	− 1·4	40	0	43	60·9	−3·5	58·0	−2·4
p Salisbury (Wilton)	180	76	31, 2	41	31st	68·7	51·9	59·7	− 1·5	0	0·00	0	− 11	Marlborough	—	—	—	—	—	—	—	—	—
a Wisley, Surrey	150	79	2nd	44	31st	69·0	50·9	59·3	− 1·9	2	0·11	3	− 6	Salisbury	•	•	•	0	38	62·2	•	•	•
a Tunbridge Wells	354	81	2nd	42	31st	68·3	50·1	58·6	− 2·4	1	0·01	0	− 10	Wisley	5·0	− 1·7	33	0	31	60·1	−2·9	58·7	−3·0
a Margate	51	77	2nd	50	31st	65·7	53·9	59·4	− 2·9	1	0·02	1	− 8	Tunbridge Wells	4·5	− 2·5	29	0	35	59·4	−5·4	56·9	—
														Margate	4·1	− 2·5	27	0	46	61·4	−1·2	59·8	+0·4
a Dungeness	21	68	2nd	45	31st	62·6	50·9	56·3	− 5·1	1	0·01	0·2	− 8	Folkestone	4·3	—	28	•	•	•	•	53·8	—
p St. Leonards	178	71	2nd	50	31st	63·3	52·7	57·6	− 4·0	1	0·03	1	− 9	St. Leonards	5·5	− 2·0	36	0	43	60·4	—	58·1	—
p Southampton	64	78	2nd	45	31st	69·1	52·9	60·4	− 2·3	0	0·00	0	− 11	Southampton	6·3	− 0·8	42	0	34	•	•	•	•
a Ventnor	59	71	2nd	52	29th	66·6	54·9	60·3	− 1·9	1	0·01	0·3	− 9	Ventnor	6·5	− 0·7	43	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	77	31, 2	47	31st	68·1	52·9	60·0	− 2·1	2	0·03	1	− 9	Richmond	4·7	− 1·8	31	0	37	60·4	−1·9	56·5	−2·0
a Westminster	27	80	2nd	48	31st	68·8	53·3	60·5	− 2·3	1	0·01	0·3	− 10	Westminster	4·2	− 1·7	27	0	46	•	•	•	•
ag Greenwich	149	85	2nd	46	31st	70·4	52·3	60·7	− 2·4	3	0·05	1	− 12	Greenwich	4·4	− 3·1	29	0	34	•	•	•	•
a Hampstead	450	77	2nd	47	28th	66·6	50·9	58·2	—	2	0·13	1	—	Hampstead	4·2	—	27	0	41	•	•	•	•
ag Camden Square	110	82	2nd	48	31st	71·7	52·7	61·5	− 2·0	1	0·01	0	− 10	Camden Square	3·9	− 1·7	25	0	45	•	•	•	•
7. a. ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	68	29th	43	29th	62·3	48·6	55·0	− 3·0	2	0·48	12	− 12	Aspatria	5·0	− 0·6	32	0	40	58·4	−1·5	54·9	−0·5
p Newton Rigg	559	74	30th	42	29–31	65·0	46·7	55·2	− 2·4	2	0·30	8	− 11	Newton Rigg	5·3	− 0·3	34	0	34	59·9	−0·1	55·9	−0·1
p Stonyhurst	375	70	31st	46	30th	65·1	50·7	57·4	− 0·9	3	0·94	24	− 3	Stonyhurst	3·8	− 1·7	24	0	40	•	•	•	•
p Blackpool	66	69	31st	43	29th	64·7	50·4	57·1	− 2·1	3	0·23	6	− 14	Blackpool	4·9	− 1·6	31	1	30	59·6	—	54·9	—
a Southport	37	70	31st	44	29th	63·4	50·7	56·6	− 2·8	3	0·32	8	− 11	Southport	4·6	− 1·8	29	0	34	63·4	0·0	60·4	−0·5
														Hoylake	5·4	− 0·7	35	•	•	•	•	•	•
a Liverpool (Bidston)	188	70	31st	50	29th	63·7	52·7	57·8	− 2·1	1	0·12	3	− 14	Liverpool	5·4	—	35	0	43	•	•	•	•
a Hawarden Bridge	22	72	31st	47	31st	66·6	52·4	59·0	− 1·6	1	0·04	1	− 14	Manchester (City)	3·5	− 1·0	22	0	40	59·5	−1·8	59·0	0·0
p Manchester (Whit. Pk.)	125	74	31st	45	30th	65·7	50·7	57·7	− 2·7	3	0·44	11	− 9	Whitworth Park	3·5	− 1·3	22	•	•	•	•	•	•
b. NORTH WALES.																						
p Llandudno	16	70	31st	44	29th	64·6	51·6	57·7	− 2·5	2	0·06	1	− 15	Llandudno	6·2	− 0·2	40	•	•	•	•	•	•
a Holyhead	15	68	2nd	49	29th	64·3	52·6	58·0	− 0·9	1	0·20	5	− 12	Holyhead	6·4	—	42	0	39	•	•	•	•
a Beddgelert	309	70	30th	44	30th	64·3	49·9	56·6	—	3	1·16	29	—	Aberdovey	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft Mean.	Deviation from average.	Earth 4 ft Mean.	Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.	°F.
8. *a*, SOUTH WALES.																								
a Aberystwyth	59	67	31st	47	29th	65·6	52·4	58·5	—	2	0·29	7	—	Aberystwyth ..	6·0	+ 0·1	39	•	•	•	•	•	•	•
a Rhayader	767	73	30th	38	31st	66·7	47·4	56·4	—	4	0·19	5	—	Rhayader ..	4·5	—	29	0	31	•	•	•	•	•
a St. Ann's Head	149	72	30th	50	29, 30	65·1	52·7	58·5	- 0·4	1	0·02	0·4	- 15	St. Ann's Head ..	7·7	+ 1·0	50	•	•	•	•	•	•	•
p Cardiff	202	70	31st	49	31st	66·9	53·4	59·7	- 0·5	1	0·04	1	- 19	Cardiff	5·6	—	37	0	44	61·7	+0·1	57·6	-1·2	
b, ENGLAND, S.W.																								
a Bath	66	74	31st	43	31st	68·4	53·4	60·4	- 0·5	0	0·00	0	- 14	Bath	•	•	•	—	—	63·1	-1·3	59·8	-1·2	
a Shaftesbury	722	72	2nd	48	31st	65·6	51·3	58·0	- 1·7	1	0·04	1	- 14	Shaftesbury ..	•	•	•	•	•	60·7	•	57·5	—	
a Arlington	613	70	30, 31	45	31st	66·7	50·5	58·0	- 0·6	1	0·17	4	- 21											
a Newquay	190	68	31st	45	30th	65·3	51·9	58·1	- 2·2	1	0·05	1	- 12	Newquay ..	6·3	- 0·6	42	0	40	63·2	—	58·6	—	
a Cullompton	202	78	2nd	39	31st	72·4	49·9	60·4	0·0	2	0·02	1	- 15	Cullompton ..	6·2	0·0	41	0	35	•	•	62·7	—	
a Portland Bill	19	65	2nd	53	29, 31	63·3	54·6	58·7	- 2·0	1	0·04	1	- 10	Weymouth ..	—	—	—	•	•	•	•	•	•	
p Plymouth	116	74	2nd	46	31st	68·7	53·9	60·8	- 0·2	1	0·01	0	- 16	Plymouth ..	7·5	+ 0·6	50	0	41	63·8	-0·5	58·9	—	
a Falmouth	167	78	2nd	47	31st	70·7	52·6	61·0	+ 0·6	2	0·02	0·4	- 17	Falmouth ..	8·5	+ 1·2	56	0	37	64·8	—	61·5	—	
9. IRELAND, N.																								
a West .. *a* Malin Head	208	62	30th	50	29, 31	59·6	51·9	55·5	- 1·4	3	0·51	13	- 5	Malin Head ..	5·6	+ 1·4	35	•	•	•	•	•	•	
a Blacksod Point ..	327	65	30th	49	30th	62·3	53·7	57·7	- 0·2	3	0·20	5	- 17	Markree Castle	6·2	—	40	0	38	61·8	+1·4	56·5	-0·1	
p Markree Castle ..	122	70	30th	39	29th	64·9	47·9	56·8	- 1·2	2	0·10	3	- 19											
b, East .. *p* Armagh	196	73	29, 30	41	29th	68·6	47·6	57·4	- 0·3	2	0·19	5	- 13	Armagh	5·5	+ 1·2	35	0	33	60·1	-1·1	56·5	-1·2	
a Donaghadee	101	67	1s	46	29, 30	63·4	49·4	55·9	- 1·7	3	0·09	2	- 15											
10. IRELAND, S.																								
p Dublin, City	47	70	2nd	48	28th	65·9	52·7	58·8	- 1·4	3	0·11	3	- 13	Trinity Coll. ..	•	•	•	0	37	60·6	-0·3	56·8	-1·2	
a Birr Castle	175	72	30th	45	29, 30	67·1	50·0	58·0	- 0·6	1	0·08	2	17	Phœnix Park ..	7·2	+ 1·9	47	2	29	•	•	•	•	
a Kilkenny	212	74	30th	44	30th	68·6	50·9	59·1	+ 0·1	1	0·02	1	- 17	Dublin City ..	•	•	•	0	43	•	•	•	•	
a Waterford	120	—	—	—	—	—	—	—	—	1	0·07	2	- 18	Birr Castle ..	5·2	+ 0·6	34	0	38	•	•	•	•	
p Seskin, Carrick-on-Suir	541	74	30th	47	30th	69·7	50·3	59·3	—	1	0·03	1	—	Seskin	7·1	—	46	0	36	•	•	•	•	
a Cahir	198	74	30th	43	30, 31	68·3	49·9	58·5	- 0·6	1	0·05	1	—											
a Foynes	50	74	30th	48	28th	67·4	52·6	59·5	+ 0·4	3	0·18	5	- 15											
a Cahirciveen (Val. Obs.)	30	66	31st	47	31st	64·0	52·0	57·6	- 1·6	3	0·16	4	- 20	Cahirciveen ..	4·1	- 0·9	27	0	40	•	•	•	•	
a Killarney	174	75	30th	48	30, 31	69·3	52·1	60·1	+ 0·6	2	0·08	2	- 20	Ballinacurra ..	—	—	—	•	•	•	•	•	•	
a Roche's Point	32	72	2nd	50	30, 31	67·1	53·3	59·7	+ 0·3	2	0·06	1	- 18											
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	131	68	29th	51	30th	66·9	54·6	60·3	- 0·5	3	0·09	2	- 11	Scilly	8·2	+ 0·5	55	•	•	•	•	•	•	
a Jersey, St. Aubins ..	25	—	—	—	—	—	—	—	—	—	—	—	—	St. Heliers ..	—	—	—	•	•	•	•	•	•	
a Guernsey (Villa Carey)	180	69	27, 31	49	31st	66·7	54·4	60·1	- 2·1	1	0·01	0·3	- 12	Guernsey† ..	7·1	- 1·6	47	0	41	63·1	-0·8	60 1	-1·2	

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, August 2nd, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time. day.	hr.	Highest Gust. Speed.	Date. d.	h.	m.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m./s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	31, 1	7	91	56	0	14	259	12	31	23	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	3	120	43	2	214	7	31	15	16	2	18	45
Aberdeen	153	105	52	—	—	—	—	32	99	37	0	281	10	2	22	17	2	21	50
Edinburgh	485	39	31	—	—	31, 2	6	72	65	25	0	203	13	31	15	22	31	14	30
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	31, 1, 2	7	44	84	33	0	280	13	2	11	21	2	11	5
Paisley	188	81	15	—	—	31	1	41	68	58	0	270	11	31	18	23	31	18	25
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	16	106	46	0	236	8	31	10	18	31	9	45
South Shields	72	61	12	—	—	1, 2	10	69	65	24	0	293	14	2	14	22	2	14	30
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	—	—	34	129	5	0	—	7	28	10	10	2	21	10
Shoeburyness	103	90	‡	—	—	—	—	28	114	26	0	281	8	2	9	17	2	16	30
4. MIDLAND COUNTIES																			
Benson	270	84	‡	—	—	—	—	5	126	37	0	270	7	2	13	13	2	12	45
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	7	113	48	0	—	6	2	17	12	2	14	40
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument out of adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	2	8	48	71	25	16	290	13	2	16	17	2	16	20
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	6	129	33	0	—	—	2	11	12	2	14	30
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	23	52	69	24	225	8	1	13	13	31	14	10
Fleetwood (Cup Anr.) ..	109	44	—	—	—	31, 1, 2	27	53	75	13	0	304	13	2	23	—	—	—	—
Southport	80	62	48	—	—	31, 1, 2	52	34	72	10	0	247	16	31	21	21	31	20	40
Holyhead	60	40	‡	—	—	31, 2	7	62	75	24	0	225	12	31	14	17	2	10	15
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	—	—	47	85	36	0	293	9	2	21	14	2	18	20
Plymouth	185	88	2	—	—	—	—	3	94	71	0	—	8	30	15	10	30	14	40
Lyme Regis (Rousdon)	600	65	30*	—	—	—	—	1	73	94	0	—	6	1	23	11	2	13	55
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	31, 1, 2	13	57	64	34	0	247	13	31	19	—	—	—	—
Quilty	100	40	‡	—	—	31	4	65	64	35	0	—	12	31	15	18	31	12	30
Cahirciveen (Val. Obs.)	98	41	‡	—	—	—	—	15	98	55	0	220	10	31	15	14	31	14	35
Weaver Pt.	160	30	‡	—	—	—	—	35	108	25	0	—	10	2	17	15	2	17	30
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	12	61	95	0	315	8	2	22	11	2	16	45

† More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]

‡ Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory.

* Above tops of trees.

** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

THIRTY-FIRST WEEK of 1919—July 27th to August 2nd, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Mean Pressure at M.S.L.
	At any "D.-V." Station.		Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	Highest	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	75	41	88·8	82·9	85·6	− 0·5	89	− 5	0	0	4	− 1	0·60	15	− 7	1·5	−2·6	9	1017
Eastern.																			
1. SCOTLAND, EAST ...	75	31	91·2	81·8	86·2	− 0·7	96	− 8	0	0	2	− 2	0·24	6	− 9	5·9	+0·8	37	1018
2. ENGLAND, N.E.	79	40	90·9	83·2	86·8	− 1·4	104	− 17	0	0	2	− 1	0·11	3	− 10	4·3	−1·6	28	1020
3. ENGLAND, EAST ...	80	44	91·7	83·7	87·4	− 1·7	111	− 21	0	0	2	− 1	0·09	2	− 8	3·7	−3·0	24	1020
4. MIDLAND COUNTIES ...	79	41	92·6	83·7	87·9	− 0·7	118	− 8	0	0	1	− 2	0·07	2	− 11	4·8	−1·1	31	1021
5. ENGLAND, S.E.	81	41	92·3	84·3	88·1	− 1·3	120	− 17	0	0	1	− 2	0·05	1	− 9	5·3	−1·6	35	1021
Western.																			
6. SCOTLAND, WEST ...	71	36	90·4	81·9	85·9	− 1·3	92	− 16	0	0	3	− 1	0·86	22	+ 1	5·6	+0·2	36	1020
7. ENGLAND, N.W.	74	42	91·1	83·4	87·0	− 1·1	106	− 14	0	0	2	− 2	0·32	8	− 12	5·1	−0·7	33	1022
8. ENGLAND, S.W.	78	38	92·7	84·1	88·1	− 0·4	120	− 5	0	0	1	− 2	0·06	1	− 16	6·7	+0·2	44	1023
9. IRELAND, NORTH ...	73	39	90·9	83·1	86·7	− 0·5	103	− 7	0	0	2	− 3	0·20	5	− 15	5·9	+1·5	37	1021
10. IRELAND, SOUTH ...	75	43	92·6	83·9	87·9	− 0·3	118	− 3	0	0	2	− 2	0·09	2	− 18	5·5	+0·5	36	1024
11. ENGLISH CHANNEL ...	69	49	92·3	85·5	88·7	− 0·8	127	− 11	0	0	2	− 1	0·05	1	− 11	7·7	−0·7	51	1024

THE SEASON (Summer).—Aggregates, &c., for the Period of 9 Weeks, June 1st to August 2nd, 1919.

0. SCOTLAND, NORTH ...	75	38	87·8	81·4	84·4	− 0·7	668	− 85	0	− 1	36	− 1	5·94	152	− 10	4·2	−0·3	24	1016
Eastern.																			
1. SCOTLAND, EAST ...	78	29	90·0	81·1	85·2	− 0·8	757	− 87	0	0	27	− 6	2·82	73	− 60	6·0	+0·5	35	1016
2. ENGLAND, N.E.	84	38	90·8	82·5	86·4	− 0·7	888	− 70	0	0	29	+ 1	3·23	82	− 37	5·2	−0·8	32	1017
3. ENGLAND, EAST ...	84	32	91·3	82·7	86·7	− 1·4	926	−152	0	0	25	− 3	3·87	99	− 12	5·6	−1·1	34	1018
4. MIDLAND COUNTIES ...	84	35	91·6	82·6	87·1	− 0·7	968	− 77	0	0	24	− 4	3·78	96	− 24	5·4	−0·6	33	1018
5. ENGLAND, S.E.	82	35	91·9	83·1	87·2	− 1·2	983	−136	0	0	23	− 3	2·97	75	− 30	5·8	−1·3	36	1019
Western.																			
6. SCOTLAND, WEST ...	76	34	89·8	81·9	85·6	− 0·9	798	−110	0	0	30	− 4	5·91	150	− 18	6·8	+0·9	41	1017
7. ENGLAND, N.W.	83	36	90·2	83·0	86·4	− 0·9	888	− 99	0	0	25	− 6	3·17	80	− 66	5·9	−0·2	36	1019
8. ENGLAND, S.W.	81	35	91·3	83·2	87·0	− 0·7	953	− 86	0	0	22	− 8	2·97	74	− 68	7·1	+0·5	44	1020
9. IRELAND, NORTH ...	73	36	89·2	82·5	85·6	− 0·9	800	−106	0	0	31	− 8	4·86	123	− 33	4·9	−0·1	30	1019
10. IRELAND, SOUTH ...	79	36	91·0	83·2	86·8	− 0·7	941	− 70	0	0	28	− 5	3·82	96	− 57	5·6	+0·1	35	1022
11. ENGLISH CHANNEL ...	80	46	90·8	84·8	87·6	− 0·8	1023	− 97	0	0	18	−11	2·32	58	− 48	7·3	−0·5	46	1022

THE YEAR 1919.—Aggregates, &c., for the Period of 31 Weeks, December 29th, 1918, to August 2nd, 1919.

0. SCOTLAND, NORTH ...	78	11	82·7	76·5	79·5	− 0·7	1059	−136	680	+ 141	128	−13	21·57	550	−142	3·7	+0·1	28	1012
Eastern.																			
1. SCOTLAND, EAST ...	78	5	83·4	75·9	79·5	− 0·9	1180	−178	787	+ 170	108	−13	14·16	364	− 62	4·1	−0·1	31	1012
2. ENGLAND, N.E.	84	11	84·3	77·3	80·6	− 0·6	1400	−131	578	+ 106	113	+ 5	14·12	359	+ 18	4·0	−0·6	30	1013
3. ENGLAND, EAST ...	84	10	84·9	77·4	81·0	− 0·8	1529	−247	580	+ 86	107	+ 1	14·65	375	+ 48	4·3	−0·6	33	1013
4. MIDLAND COUNTIES ...	84	9	85·0	77·2	81·0	− 0·7	1587	−180	628	+ 106	103	− 2	17·07	434	+ 66	4·0	−0·4	31	1013
5. ENGLAND, S.E.	82	16	85·5	78·1	81·6	− 0·8	1690	−197	451	+ 72	106	+ 4	16·83	426	+ 72	4·4	−0·7	33	1014
Western.																			
6. SCOTLAND, WEST ...	83	14	84·2	77·3	80·6	− 0·7	1326	−172	539	+ 123	116	−12	20·73	526	− 99	4·5	+0·2	34	1013
7. ENGLAND, N.W.	83	16	84·3	78·0	81·0	− 0·7	1450	−162	494	+ 112	108	− 6	16·10	410	− 55	4·3	−0·2	33	1013
8. ENGLAND, S.W.	81	15	85·1	78·3	81·6	− 0·7	1599	−188	409	+ 108	111	− 2	21·27	541	+ 35	4·8	0·0	37	1014
9. IRELAND, NORTH ...	76	22	84·4	77·9	81·0	− 0·7	1380	−179	437	+ 97	131	− 9	18·03	454	− 67	4·1	+0·1	31	1012
10. IRELAND, SOUTH ...	80	22	85·4	78·6	81·9	− 0·6	1642	−181	362	+ 102	127	+ 4	18·73	477	− 72	4·3	−0·2	33	1014
11. ENGLISH CHANNEL ...	80	26	85·7	80·4	83·0	− 0·5	1854	−189	137	+ 32	115	− 3	22·31	564	+153	5·2	−0·6	40	1015
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	b.m

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: August 8th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN

FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) No. 32.

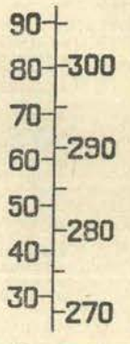
THE THIRTY-SECOND WEEK OF 1919.

SUNDAY, AUGUST 3RD, TO SATURDAY, AUGUST 9TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

For the greater part of the week anticyclonic conditions, with fine warm weather, prevailed over the United Kingdom generally; during Monday and Tuesday, however, a shallow depression passed eastwards across the country and slight rain fell in most districts; at some Scottish stations there were further showers on later days. At nearly all the English stations and in Scotland W. the highest temperatures of the week (which were also the highest up to date for the year) occurred on Saturday, when readings of about 302 a. were reported over all the eastern, central and southern parts of England. The minima varied considerably; the night of the 4–5th was generally very warm over inland England, with readings of about 287 a., but on several other nights in the same region the thermometer went down to about 279 a. The mean temperature for the week was equal to the normal in England E. and S.E. and over the Channel, but slightly above it in other Districts. The total rainfall was below the normal in all Districts, only two or three stations (in the north-western Districts) having as much as 20mm. during the week; in most cases the amounts were very small and in some negligible. The mean amount of bright sunshine was 1½ hr. per day less than the normal in Scotland N., and there was a slight deficiency in England N.W.; in all other districts the amount exceeded the normal; in England S.E. the excess was as much as three hours per day. At many stations in the Midland Counties and in the South of England the records for the later days of the week were as large as 13 to 14 hrs. and more. Thunder was heard at Oxford on Friday. Solar halos were observed at Oxford, Tenbury and Ross-on-Wye on the 3rd, and again at Oxford on the 4th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E. Shoeburyness.†		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	7	1·7	15	2·0	13	2·2	6	2·0	9	2·3	6	2·9	6	2·1	6	1·4
North	14	2·6	6	2·7	12	3·0	13	2·3	14	3·2	21	3·0	6	2·7	14	2·8
West	26	6·4	24	5·8	21	3·0	19	1·9	21	3·3	17	2·9	17	6·2	16	2·4
East	1	1·7	0	—	3	2·6	1	0·3	0	—	8	3·2	5	2·6	4	1·5
Calm	1	—	4	—	3	—	8	—	6	—	0	—	6	—	8	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Moderate	Unusual	Moderate	Unusual	Moderate	Unusual	Moderate	Unusual	Unusual	Unusual	Moderate
	Rainfall ...	Light	Light	Light	Light	Very light	Light	Light	Light	Light	Very light	Very light	Moderate
	Sunshine ...	Scanty	Moderate	Abundant	Abundant	Abundant	Abundant	Abundant	Moderate	Abundant	Abundant	Very abundant	Abundant

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SUMMER. 10 weeks from June 1st, 1919.	Warmth ...	0, 7, 3	1, 4, 5	4, 1, 5	2, 2, 6	3, 3, 4	1, 3, 6	2, 3, 5	2, 3, 5	2, 2, 6	2, 3, 5	2, 3, 5	1, 3, 6
	Rainfall ...	3, 2, 5	0, 5, 5	1, 2, 7	4, 2, 4	2, 4, 4	1, 4, 5	2, 2, 6	0, 3, 7	0, 5, 5	1, 4, 5	1, 5, 4	1, 5, 4
	Sunshine ...	2, 4, 4	4, 4, 2	2, 3, 5	3, 2, 5	3, 2, 5	3, 2, 5	4, 5, 1	2, 6, 2	4, 4, 2	4, 4, 2	6, 2, 2	1, 5, 4

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(24634—19.) Wt. 162—833/512. 625. 8/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft Mean.	Earth 4 ft Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																						
a, Islands .. a Lerwick ..	54	58	5, 8	47	4th	57·1	48·7	52·7	- 0·3	5	0·22	6	- 9									
a Houton Bay, Orkney	520	57	9th	46	4-6	55·3	47·0	50·9	—	—	—	—	—	Houton Bay ..	—	—	—	•	•	•	•	•	•
a Stornoway ..	51	62	9th	50	3rd	60·1	51·4	55·5	+ 0·7	2	0·20	5	- 15	Stornoway ..	2·6	- 1·6	17	•	•	•	•	•	•
a Castlebay, Barra I.	37	60	4, 9	51	3rd	58·1	52·7	55·2	—	6	0·79	20	—	Castlebay ..	2·8	—	18	•	•	•	•	•	•
b, Mainland. a Wick	81	61	5, 8	45	4th	58·6	49·1	53·6	- 1·0	4	0·10	3	- 12									
a Strathpeffer	125	70	9th	50	3, 4	64·6	52·3	58·1	+ 1·6	2	0·09	2	- 12									
p Glencarron	500	64	9th	48	3-5	59·1	49·9	54·2	- 0·5	6	0·28	7	- 29									
a Fort Augustus	88	—	—	—	—	—	—	—	—	—	—	—	—									
p Fort William	171	69	5, 9	50	4th	64·7	52·3	58·1	+ 1·3	6	0·35	9	- 23									
1. SCOTLAND, E.																						
a Nairn	82	70	5th	50	3-5	64·9	51·6	57·9	+ 1·3	4	0·18	5	- 9	Nairn ..	3·7	—	24	•	•	•	•	•	•
p Gordon Castle	101	68	5, 9	50	4th	64·6	51·6	57·7	+ 1·0	2	0·07	2	- 16	Gordon Castle..	3·0	—	19	•	•	•	•	•	•
a Aberdeen	46	67	5, 8	45	5th	64·4	50·4	57·0	+ 0·4	1	0·01	0·3	- 16	Aberdeen ..	3·6	- 1·3	23	0	39	•	•	53·8	-0·3
a Balmoral	930	73	8, 9	44	4th	67·3	49·7	58·0	+ 4·0	0	0·00	0	- 17	Balmoral ..	*	*	*	0	41	*	*	*	*
p Crieff	432	75	9th	45	4th	68·0	51·0	59·0	+ 1·4	4	0·09	2	- 20	Crathes ..	3·6	- 0·9	23	0	36	58·7	-0·1	54·8	-0·4
a Dundee	244	73	7th	47	6th	69·0	50·1	59·0	+ 1·3	3	0·05	1	- 18	Dundee ..	6·7	—	43	0	40	59·3	•	•	•
a Leith	30	71	5, 9	49	3, 4	66·7	51·9	58·9	+ 0·2	2	0·12	3	- 13	Leith ..	—	—	—	0	41	•	•	•	•
p Edinburgh	441	74	9th	48	3, 4	67·6	50·9	58·8	+ 1·8	3	0·10	3	- 13	Edinburgh ..	6·6	+ 1·7	43	0	44	•	•	•	•
a West Linton	769	73	9th	43	4th	63·9	47·3	55·1	+ 0·8	3	0·25	6	—	West Linton ..	4·8	—	31	0	36	•	•	•	•
p Marchmont	498	72	9th	41	3rd	67·4	46·7	56·4	- 0·1	2	0·27	7	- 11	Marchmont .	5·9	+ 1·1	38	•	•	•	•	•	•
6. a, SCOTLAND, W.																						
a Ford (Argyll)	149	72	9th	50	3, 4	63·7	51·8	57·4	—	6	0·85	22	—	Ford (Argyll) ..	•	•	•	0	45	59·4	—	55·2	—
p Glasgow Observatory	180	74	9th	50	3rd	64·6	53·4	58·7	+ 1·3	3	0·35	9	- 12	Glasgow ..	6·3	+ 2·0	41	0	41	•	•	•	•
p Rothesay	200	67	9th	49	3, 4	62·7	50·6	56·3	- 1·1	6	0·40	10	- 16	Rothesay ..	4·8	—	31	0	46	58·7	—	55·2	-0·5
a Kilmarnock	90	74	9th	50	3rd	65·9	52·7	58·9	+ 2·4	4	0·20	5	- 17	Kilmarnock ..	5·3	—	34	•	•	58·5	—	54·7	—
a Colmonell	170	76	9th	52	3rd	65·6	53·4	59·1	+ 2·7	4	0·55	14	- 7	Colmonell ..	•	•	•	0	49	•	•	•	•
p Cally, Gatehouse	120	74	9th	48	6th	67·9	51·7	59·3	+ 2·9	4	0·54	14	- 10	Dumfries ..	6·7	—	44	0	40	59·0	-2·1	55·2	-3·9
p Dumfries	160	77	9th	48	6th	67·6	51·9	59·3	+ 1·1	3	0·17	4	- 16	Eskdalemuir ..	5·8	—	38	0	37	•	•	•	•
a Eskdalemuir	794	76	9th	45	4th	65·0	49·0	56·5	—	1	0·08	2	—									
b, I. OF MAN p Douglas	277	69	9th	51	4, 6	64·4	52·7	58·2	+ 0·8	4	0·40	10	- 11	Douglas ..	7·1	+ 1·1	46	0	49	•	•	•	•
2. ENGLAND, N.E.																						
a North .. a Alnwick Castle	219	73	8th	49	4th	68·7	52·0	59·9	+ 2·6	2	0·14	4	- 12									
a Tynemouth	71	71	6th	49	3, 4	66·1	51·7	58·5	+ 0·8	1	0·12	3	- 12	Cockle Park ..	6·5	+ 1·2	42	0	42	58·4	-0·1	54·9	-1·1
p Durham	336	76	9th	47	6th	69·4	51·0	59·7	+ 1·7	2	0·15	4	- 10	Durham ..	5·9	+ 0·9	39	0	39	•	•	•	•
p Rounton	249	79	9th	45	4th	68·7	49·6	58·6	+ 1·3	2	0·10	3	- 13	Rounton ..	•	•	•	0	34	58·3	•	•	•
a West Witton	605	79	9th	48	4th	68·1	52·3	59·7	—	2	0·11	3	—	West Witton ..	•	•	•	0	43	57·7	—	53·0	—
p Scarborough	100	71	9th	49	4th	67·6	52·9	59·8	+ 0·8	1	0·06	2	- 13	Scarborough† ..	7·2	+ 1·7	47	•	•	•	•	54·1	—
p York	56	81	9th	49	7th	70·1	52·7	60·9	+ 1·2	2	0·22	6	- 8	York ..	6·2	+ 1·1	41	—	—	59·5	-0·7	56·3	-1·0
b, South .. a Spurn Head	26	68	8th	52	4, 6, 7	64·4	53·3	58·5	- 1·3	2	0·43	11	0	Spurn Head ..	—	—	—	•	•	•	•	•	•
a Lincoln	58	84	9th	47	7th	69·9	51·9	60·4	+ 0·1	2	0·17	4	- 9	Lincoln ..	•	•	•	0	44	59·4	-2·3	56·8	-1·1
a Fulbeck	180	83	9th	45	8th	71·6	51·1	60·7	+ 0·5	1	0·11	3	- 11	Fulbeck* ..	6·7	+ 0·5	44	•	•	60·9	-2·0	57·1	-1·0
														Skegness ..	7·5	+ 1·0	50	•	•	•	•	•	•
3. ENGLAND, E.																						
p Cromer	196	75	9th	47	6th	67·6	52·0	59·3	- 0·8	1	0·04	1	- 10	Cromer ..	6·8	+ 0·7	45	•	•	•	•	•	•
a Little Massingham	280	82	9th	45	4th	69·4	50·0	59·1	- 1·0	1	0·02	0·4	- 15	Lit. Massingham	7·5	+ 1·7	50	•	•	•	•	•	•
a Yarmouth	13	75	9th	47	4th	69·0	51·6	59·8	- 0·6	0	0·00	0	- 13	Yarmouth ..	8·2	—	55	0	45	60·6	-4·1	57·7	-3·6
a Norwich	93	84	9th	47	4, 6	71·3	51·7	60·9	+ 0·2	1	0·01	0	- 13	Norwich ..	7·1	—	47	0	42	61·1	•	•	•
a Geldeston	37	85	9th	44	4th	72·3	50·0	60·5	+ 0·1	1	0·02	0·4	- 11	Geldeston ..	6·9	+ 0·8	46	•	•	•	•	•	•
p Cambridge	41	85	9th	45	8th	73·1	50·6	61·2	+ 0·2	1	0·03	1	- 11	Cambridge ..	8·1	+ 2·0	54	0	44	62·4	-0·9	58·3	-1·9
a Clacton-on-Sea	54	75	6th	49	4th	68·9	52·1	60·0	- 1·2	2	0·13	3	- 7	Clacton ..	8·7	+ 1·8	58	0	44	61·2	-0·8	58·5	-1·9
a Rothamsted	424	83	9th	47	6, 8	71·3	51·0	60·5	+ 0·6	2	0·12	3	- 10	Rothamsted ..	8·1	+ 2·0	54	0	41	60·8	•	•	•
p Tottenham	51	85	9th	51	8th	74·6	51·3	63·8	—	1	0·05	1	—	Tottenham ..	8·1	—	54	0	46	•	•	59·8	-1·6
														S'thend-on-Sea	8·4	—	56	0	50	64·1	—	—	—
4. MIDLAND COUNTIES.																						
a North .. a Harrogate	479	78	9th	46	4, 7	66·3	50·6	58·0	0·0	2	0·30	8	- 6	Harrogate ..	6·7	+ 1·3	44	0	40	56·7	-1·1	55·2	-1·1
a Sheffield	429	82	9th	51	4th	68·1	54·0	60·6	—	1	0·14	4	—	Sheffield ..	5·3	0·0	35	0	44	58·3	-1·4	54·7	-1·2
p Buxton	987	78	9th	49	3rd	64·3	51·0	57·3	—	1	0·24	6	- 15	Buxton ..	4·7	—	31	0	48	57·7	-1·3	54·5	-0·6
b, East .. a Bawtry	65	82	9th	48	6th	69·1	52·1	60·1	+ 0·2	2	0·13	3	- 9	Worksop ..	6·4	+ 1·5	42	0	37	59·2	—	56·1	—
a Nottingham	82	82	9th	47	7th	70·0	52·0	60·5	+ 0·5	1	0·20	5	- 7	Nottingham ..	6·1	+ 0·6	40	0	42	60·0	-1·5	57·8	-1·3
p Birmingham, Edgbsn.	535	82	9th	51	6, 7	71·0	53·1	61·5	+ 1·7	1	0·09	2	- 11	Birmingham ..	6·7	+ 1·9	45	0	44	57·2	+0·1	52·5	-1·1
a Raunds	203	85	9th	47	8th	73·3	50·1	61·0	+ 0·1	1	0·16	4	- 9	Raunds ..	7·5	—	50	0	38	61·2	—	55·9	—
p Oxford	208	84	9th	48	6th	74·0	52·0	62·3	+ 1·2	1	0·03	1	- 11	Oxford ..	8·9	+ 2·8	60	0	41	•	•	•	•
														Malvern ..	9·5	—	64	0	45	62·7	—	59·8	—
c, West .. a Cheadle (N. Staffs.)	646	80	9th	50	6-8	68·9	51·9	59·9	+ 1·7	1	0·14	4	- 13	Cheadle ..	•	•	•	0	46	•	•	•	•
p Tenbury	313	85	9th	42	6th	74·6	47·6	60·3	+ 1·1	1	0·05	1	- 13	Tenbury ..	•	•	•	0	37	61·9	—	—	—
p Ross-on-Wye	201	83	9th	44	6th	75·4	49·0	61·4	+ 0·9	1	0·02	1	- 11	Ross-on-Wye ..	10·4	—	70	0	40	—	—	—	—
a Clifton	228	83	9th	52	7th	73·6	54·7	63·6	+ 1·4	1	0·07	2	- 18	Clifton ..	10·4	—	70	0	51	•	•	•	•
5. ENGLAND, S.E.														Worthing ..	10·4	+ 3·3	70	0	47	63·1	-1·4	58·6	-2·2
a Marlborough	424	81	9th	41	8, 9	72·1	44·7	57·6	- 1·3	0	0·00	0	- 12	Marlborough ..	9·8	+ 4·1	66	0	35	60·7	—	56·8	—
p Salisbury (Wilton)	180	86	9th	44	9th	75·4	48·2	61·0	+ 0·1	1	0·05	1	- 11	Salisbury ..	•	•	•	0	41	63·7	•	•	•
a Wisley, Surrey	150	86	9th	45	8th	74·4	49·6	61·3	+ 0·3	0	0·00	0	- 9	Wisley	8·5	+ 2·1	57	0	34	61·4	-1·8	57·3	-2·8
a Tunbridge Wells	354	82	9th	47	8th	73·0	51·4	61·6	+ 0·7	2	0·09	2	- 9	Tunbridge Wells	8·7	+ 2·1	58	0	39	61·4	-3·8	57·7	—
a Margate	51	80	9th	54	8th	70·7	56·9	63·4	+ 1·1	0	0·00	0	- 9	Margate	9·9	+ 3·6	63	0	48	65·8	+2·9	60·7	+0·8
a Dungeness	21	73	9th	49	7th	68·0	53·4	60·3	- 1·2	2	0·08	2	- 7	Folkestone ..	9·5	—	64	•	•	•	•	54·3	—
p St. Leonards	178	73	9th	52	7th	68·3	55·4	61·5	- 0·1	2	0·15	4	- 7	St. Leonards ..	10·1	+ 3·1	68	0	47	63·9	—	58·6	—
p Southampton	64	81	9th	49	4th	74·0	52·4	63·6	+ 0·1	1	0·03	1	- 11	Southampton ..	10·4	+ 3·7	70	0	39	•	•	•	•
a Ventnor	59	74	9th	54	3rd	70·7	56·6	63·2	+ 0·9	1	0·07	2	- 7	Ventnor	10·6	+ 3·8	71	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	84	9th	50	6, 8	73·3	53·2	62·7	+ 0·9	0	0·00	0	- 10	Richmond ..	7·9	+ 1·7	53	0	39	61·7	-0·9	56·8	-2·0
a Westminster	27	85	9th	50	8th	74·2	54·0	63·5	+ 0·9	1	0·04	1	- 9	Westminster ..	8·4	+ 2·8	56	0	43	•	•	•	•
ag Greenwich	149	86	9th	47	8th	76·0	52·9	63·8	+ 1·1	1	0·01	0	- 13	Greenwich ..	8·3	+ 1·1	56	0	35	•	•	•	•
a Hampstead	450	83	9th	50	7, 8	72·3	52·7	61·9	—	1	0·10	3	—	Hampstead ..	7·9	—	53	0	41	•	•	•	•
ag Camden Square	110	88	9th	49	8th	76·7	53·6	64·5	+ 1·2	2	0·06	2	- 8	Camden Square	7·3	+ 2·0	49	0	46	•	•	•	•
7. a, ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	72	9th	48	7th	64·7	51·7	57·8	- 0·1	4	0·10	3	- 19	Aspatria	5·4	+ 0·2	35	0	44	57·7	-2·2	54·9	-0·7
p Newton Rigg	559	79	9th	47	6th	67·4	50·6	58·5	+ 1·3	4	0·12	3	- 15	Newton Rigg ..	5·6	+ 0·4	37	0	35	59·1	-1·1	56·1	-0·2
p Stonyhurst	375	71	9th	50	7th	65·0	53·4	58·9	+ 0·9	2	0·14	4	- 21	Stonyhurst ..	4·9	- 0·2	32	0	45	•	•	•	•
p Blackpool	66	73	9th	54	3, 9	65·1	55·3	59·9	+ 0·9	2	0·30	8	- 10	Blackpool ..	5·0	- 1·1	33	0	46	59·2	—	55·2	—
a Southport	37	72	9th	53	3, 9	64·1	54·9	59·2	0·0	2	0·39	10	- 8	Southport ..	4·4	- 1·6	29	0	49	61·9	-1·5	60·1	-1·6
														Hoylake ..	4·7	- 1·0	31	•	•	•	•	•	•
a Liverpool (Bidston)	188	71	9th	54	4, 6, 7	63·3	55·1	59·0	- 0·7	1	0·24	6	- 10	Liverpool ..	4·5	—	30	0	46	•	•	•	•
a Hawarden Bridge	22	75	9th	50	6th	67·6	53·9	60·3	- 0·2	2	0·12	3	- 11	Manchester (City)	3·4	- 0·8	23	0	47	59·4	-2·1	59·0	-0·5
p Manchester (Whit. Pk.)	126	82	9th	52	3rd	67·3	53·7	60·1	- 0·1	1	0·19	5	- 13	Whitworth Park	2·6	- 1·8	17	•	•	•	•	•	•
b NORTH WALES.																						
p Llandudno	16	74	9th	52	6th	65·7	54·6	59·8	- 0·2	1	0·08	2	- 13	Llandudno ..	5·2	- 0·7	34	•	•	•	•	•	•
a Holyhead	15	72	9th	53	4, 7	65·4	54·0	59·4	+ 0·5	1	0·20	5	- 11	Holyhead ..	5·8	—	38	0	45	•	•	•	•
a Beddgelert	309	73	9th	46	6th	64·7	51·9	57·9	—	2	0·68	17	—	Aberdovey ..	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—									

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
8. *a*, SOUTH WALES.																						
a Aberystwyth	59	69	8, 9	51	8th	63·6	54·0	58·5	—	1	0·14	4	—	Aberystwyth	6·2	+ 0·5	41	•	•	•	•	•	•
a Rhayader	767	79	9th	43	6–8	68·1	46·9	56·9	—	1	0·02	1	—	Rhayader	7·5	—	50	0	36	•	•	•	•
a St. Ann's Head	149	71	8th	53	7th	64·6	54·9	59·5	+ 0·3	2	0·05	1	− 14	St. Ann's Head	8·2	+ 1·8	55	•	•	•	•	•	•
p Cardiff	202	83	9th	49	6th	72·0	52·9	61·9	+ 1·6	1	0·02	1	− 18	Cardiff	9·9	—	66	0	41	62·2	0·0	58·2	−0·9
b, ENGLAND, S.W.																						
a Bath	66	85	9th	47	8, 9	74·9	51·1	62·3	+ 1·4	1	0·04	1	− 13	Bath	•	•	•	—	—	63·8	−1·0	60·4	−1·0
a Shaftesbury	722	81	9th	48	4th	71·9	52·1	61·4	+ 1·7	1	0·10	3	− 11	Shaftesbury	•	•	•	•	•	62·6	•	58·5	—
a Arlington	613	79	9th	47	6th	68·3	51·0	59·1	+ 0·4	1	0·27	7	− 17										
a Newquay	190	77	9th	47	8th	67·6	54·6	60·7	+ 0·2	1	0·10	3	− 9	Newquay	8·1	+ 1·5	54	0	43	63·2	—	59·0	—
a Cullompton	202	84	9th	44	9th	76·6	49·7	62·3	+ 1·9	1	0·02	0·4	− 15	Cullompton	10·2	+ 4·3	68	0	39	65·4	•	—	—
a Portland Bill	19	69	8, 9	55	7, 8	66·3	56·4	61·1	+ 0·1	1	0·31	8	− 2	Weymouth	—	—	—	•	•	•	•	•	•
p Plymouth	116	77	7th	51	4th	71·4	54·4	62·4	+ 1·3	1	0·24	6	− 8	Plymouth	10·8	+ 4·2	73	0	48	66·0	+1·7	59·7	—
a Falmouth	167	76	7th	52	4th	68·6	54·7	61·2	+ 0·7	2	0·13	3	− 13	Falmouth	8·5	+ 1·5	58	0	43	65·1	—	62·4	—
9. IRELAND, N.																						
a West { *a* Malin Head	208	68	8th	52	5, 6	60·6	53·0	56·6	− 0·5	6	0·30	8	− 13	Malin Head	4·2	—	27	•	•	•	•	•	•
a Blacksod Point	327	68	9th	49	7th	62·6	54·4	58·3	+ 0·3	5	0·31	8	− 18	Markree Castle	4·1	− 0·2	27	0	42	61·7	+1·0	57·0	+0·2
p Markree Castle	122	74	9th	46	9th	65·3	51·3	57·9	+ 0·9	4	0·21	5	− 20										
b, East { *p* Armagh	196	78	9th	48	9th	70·7	51·4	60·5	+ 2·8	4	0·28	7	− 14	Armagh	6·1	+ 1·8	40	0	41	60·5	−0·7	56·8	−1·2
a Donaghadee	101	67	9th	50	4, 6	64·0	51·9	57·6	− 0·1	4	0·47	12	− 8										
10. IRELAND, S.																						
p Dublin, City	47	71	7th	51	7th	68·3	54·7	61·1	+ 1·2	2	0·07	2	− 16	Trinity Coll.	•	•	•	—	—	—	—	—	—
a Birr Castle	175	77	8th	46	7th	70·0	51·3	60·1	+ 1·8	3	0·13	3	− 19	Phœnix Park	6·8	+ 1·3	45	0	34	•	•	•	•
a Kilkenny	212	77	8th	47	7, 9	71·1	50·9	60·4	+ 1·7	1	0·01	0·3	− 20	Dublin City	•	•	•	0	47	•	•	•	•
a Waterford	120	74	8th	49	4, 8, 9	71·3	51·9	61·0	+ 1·4	0	0·00	0	− 22	Birr Castle	6·0	+ 1·2	40	0	38	•	•	•	•
p Seskin, Carrick-on-Suir	541	76	7th	49	3, 7	71·6	50·9	60·6	—	0	0·00	0	—	Seskin	7·2	—	48	0	42	•	•	•	•
a Cahir	199	77	8th	48	3rd	70·3	51·0	60·1	+ 1·2	2	0·03	1	—										
a Foynes	50	80	8th	53	9th	68·6	55·3	61·6	+ 2·7	3	0·13	3	− 19										
a Cahirciveen (Val. Obs.)	30	76	8th	49	7th	65·9	53·9	59·5	+ 0·4	2	0·12	3	− 24	Cahirciveen	6·7	+ 1·4	45	0	41	•	•	•	•
a Killarney	174	80	7, 8	52	3rd	72·4	55·4	63·4	+ 4·1	3	0·06	2	− 23	Ballinacurra	8·5	+ 3·2	57	•	•	•	•	•	•
a Roche's Point	32	—	—	53	3, 4, 5	68·9	54·3	61·2	+ 1·9	1	0·04	1	− 20										
11. ENGLISH CHANNEL.																						
a Scilly, St. Mary's	131	72	9th	55	3, 4	67·1	56·1	61·3	+ 0·3	1	0·04	1	− 13	Scilly	6·8	− 0·9	46	•	•	•	•	•	•
a Jersey, St. Aubins	25	—	—	—	—	—	—	—	—	—	—	—	—	St. Heliers	—	—	—	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	82	9th	53	4, 8	70·7	55·6	62·7	+ 0·2	1	0·63	16	+ 3	Guernsey†	11·3	+ 2·6	77	0	45	63·6	−0·7	60·4	−1·3

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, August 9th, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)**	188	16	5	—	—	2, 6, 7	22	82	51	13	0	281	15	6	16	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	12	75	81	0	315	7	6	15	16	6	15	10
Aberdeen	153	105	52	—	—	3	5	24	78	61	0	304	12	3	10	18	3	9	35
Edinburgh	485	39	31	—	—	—	—	104	37	27	0	259	11	3	2	15	3	1	35
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	6	2	40	90	36	0	300	13	6	16	19	6	15	30
Paisley	188	81	15	—	—	—	—	22	102	44	0	293	7	6	12	16	6	11	30
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	5	65	98	0	326	6	3	9	12	6	12	20
South Shields	72	61	12	—	—	—	—	54	92	22	0	293	11	6	9	17	6	9	30
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.)	73	60	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	—	—	15	126	27	0	—	8	9	13	11	3	8	15
Shoeburyness	103	90	‡	—	—	—	—	30	110	28	0	293	9	3	12	15	3	11	30
4. MIDLAND COUNTIES																			
Benson	270	84	‡	—	—	—	—	2	100	66	0	315	6	3	10	11	3	9	35
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	9	100	59	0	—	7	3	8	12	3	7	40
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument out of adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	44	69	16	39	340	9	3	9	13	3	11	50
Richmond (Kew Obs.)	82	65	22	—	—	—	—	—	108	60	0	236	5	4	17	10	4	17	30
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	15	61	92	0	236	8	6	14	13	6	14	0
Fleetwood (Cup Anr.)	109	44	—	3	2	3, 4, 6, 7	21	60	63	22	0	293	18	3	6	—	—	—	—
Southport	80	62	48	—	—	3, 6, 7	22	78	52	15	0	293	16	3	3	20	3	1	5
Holyhead	60	40	‡	—	—	—	—	47	76	45	0	304	9	3	2	13	3	0	5
8. ENGLAND, S.W.																			
Pendennis Castle§	256	65	24	—	—	4	2	54	111	1	0	247	12	4	18	15	4	17	45
Plymouth	185	88	2	—	—	—	—	7	104	57	0	—	7	3	8	13	3	7	30
Lyme Regis (Rousdon)	600	65	30*	—	—	—	—	—	50	118	0	—	5	6	21	13	3	8	45
10. IRELAND, S.																			
Kingstown (Cup Anr.)	49	27	—	—	—	4	1	75	58	34	0	259	11	4	12	—	—	—	—
Quilty	100	40	‡‡‡‡	—	—	—	—	63	66	39	0	—	10	4	5	14	4	9	30
Cahirciveen (Val. Obs.)	98	41	‡‡‡‡	—	—	—	—	27	102	39	0	250	9	4	6	15	4	6	5
Weaver Pt.	160	30	‡‡‡‡	—	—	—	—	52	113	3	0	—	9	4	12	15	4	12	15
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	17	104	47	0	270	9	4	18	12	4	18	40

† More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.
* Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

THIRTY-SECOND WEEK of 1919—August 3rd to August 9th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	70	45	88·9	83·3	86·0	+ 0·1	94	+ 2	0	0	4	− 1	0·21	5	− 17	2·6	−1·6	17	1015
Eastern.																			
1. SCOTLAND, EAST ...	75	41	91·8	83·0	87·2	+ 0·5	109	+ 7	0	0	2	− 2	0·12	3	− 15	5·0	+0·3	32	1016
2. ENGLAND, N.E.	84	45	93·3	84·0	88·4	+ 0·6	124	+ 7	0	0	2	− 2	0·17	4	− 10	6·7	+1·2	44	1017
3. ENGLAND, EAST ...	85	44	94·6	83·8	88·9	0·0	130	0	0	0	1	− 2	0·05	1	− 11	7·8	+1·7	52	1018
4. MIDLAND COUNTIES ...	85	42	95·0	83·7	89·1	+ 0·7	132	+ 8	0	0	1	− 2	0·12	3	− 10	7·6	+2·0	51	1019
5. ENGLAND, S.E.	86	41	95·2	84·2	89·4	0·0	137	+ 1	0	0	1	− 2	0·05	1	− 9	9·6	+3·0	64	1019
Western.																			
6. SCOTLAND, WEST ...	77	48	91·5	84·3	87·7	+ 0·6	115	+ 8	0	0	4	0	0·43	11	− 12	6·7	+1·5	44	1018
7. ENGLAND, N.W.	82	47	91·7	85·0	88·2	+ 0·3	121	+ 3	0	0	2	− 2	0·17	4	− 15	5·1	−0·3	34	1019
8. ENGLAND, S.W.	85	43	94·3	84·3	89·0	+ 0·4	132	+ 6	0	0	1	− 3	0·12	3	− 13	8·5	+2·3	57	1021
9. IRELAND, NORTH ...	78	46	91·6	84·2	87·7	+ 0·5	116	+ 8	0	0	4	0	0·28	7	− 16	5·1	+0·8	33	1019
10. IRELAND, SOUTH ...	80	46	93·9	84·8	89·1	+ 1·0	132	+ 12	0	0	2	− 2	0·07	2	− 20	7·0	+1·8	47	1022
11. ENGLISH CHANNEL ...	82	53	93·5	86·3	89·7	0·0	140	0	0	0	1	− 2	0·34	9	− 5	9·1	+1·1	62	1022

THE SEASON (Summer).—Aggregates, &c., for the Period of 10 Weeks, June 1st to August 9th, 1919.

0. SCOTLAND, NORTH ..	75	38	88·0	81·6	84·6	− 0·6	762	− 83	0	− 1	40	− 2	6·33	162	− 22	4·1	−0·4	24	1016
Eastern.																			
1. SCOTLAND, EAST ...	78	29	90·2	81·3	85·4	− 0·7	866	− 80	0	0	29	− 8	2·94	76	− 75	5·9	+0·5	35	1016
2. ENGLAND, N.E.	84	38	91·1	82·6	86·6	− 0·5	1012	− 63	0	0	31	− 1	3·40	86	− 47	5·4	−0·6	33	1017
3. ENGLAND, EAST ...	85	32	91·7	82·8	86·9	− 1·3	1056	−152	0	0	26	− 5	3·92	100	− 23	5·8	−0·8	36	1018
4. MIDLAND COUNTIES ...	85	35	91·9	82·7	87·3	− 0·6	1100	− 69	0	0	25	− 6	3·90	99	− 34	5·6	−0·4	35	1018
5. ENGLAND, S.E.	86	35	92·2	83·2	87·5	− 1·0	1120	−135	0	0	24	− 5	3·02	76	− 39	6·2	−0·8	39	1019
Western.																			
6. SCOTLAND, WEST ...	77	34	90·0	82·1	85·8	− 0·8	913	−102	0	0	34	− 4	6·35	161	− 30	6·8	+0·9	41	1018
7. ENGLAND, N.W.	83	36	90·4	83·2	86·6	− 0·7	1009	− 96	0	0	27	− 8	3·34	84	− 81	5·8	−0·3	36	1019
8. ENGLAND, S.W.	85	35	91·6	83·3	87·2	− 0·6	1085	− 80	0	0	23	−11	3·09	77	− 81	7·2	+0·7	45	1020
9. IRELAND, NORTH ...	78	36	89·4	82·7	85·8	− 0·8	916	− 98	0	0	35	− 8	5·14	130	− 49	5·0	+0·1	30	1019
10. IRELAND, SOUTH ...	80	36	91·3	83·4	87·0	− 0·5	1073	− 58	0	0	30	− 7	3·89	98	− 77	5·7	+0·2	36	1022
11. ENGLISH CHANNEL ...	82	46	91·1	84·9	87·8	− 0·7	1163	− 97	0	0	19	−13	2·66	67	− 53	7·5	−0·3	48	1022

THE YEAR 1919.—Aggregates, &c., for the Period of 32 Weeks, December 29th, 1918, to August 9th, 1919.

0. SCOTLAND, NORTH ...	78	11	82·9	76·7	79·7	− 0·7	1153	−134	680	+ 141	132	−14	21·96	560	−154	3·7	+0·1	27	1012
Eastern.																			
1. SCOTLAND, EAST ...	78	5	83·7	76·1	79·8	− 0·8	1289	−171	787	+ 170	110	−15	14·28	367	− 77	4·2	0·0	31	1012
2. ENGLAND, N.E.	84	11	84·6	77·5	80·9	− 0·5	1524	−124	578	+ 106	115	+ 3	14·29	363	+ 8	4·1	−0·5	31	1013
3. ENGLAND, EAST ...	85	10	85·2	77·6	81·2	− 0·8	1659	−247	580	+ 86	108	− 1	14·70	376	+ 37	4·4	−0·5	33	1014
4. MIDLAND COUNTIES ...	85	9	85·3	77·4	81·3	− 0·6	1719	−172	628	+ 106	104	− 4	17·19	437	+ 56	4·1	−0·3	31	1014
5. ENGLAND, S.E.	86	16	85·8	78·3	81·9	− 0·7	1827	−196	451	+ 72	107	+ 2	16·88	427	+ 63	4·5	−0·6	35	1014
Western.																			
6. SCOTLAND, WEST ...	83	14	84·4	77·5	80·8	− 0·7	1441	−164	539	+ 123	120	−12	21·16	537	−111	4·6	+0·2	34	1013
7. ENGLAND, N.W.	83	16	84·6	78·2	81·3	− 0·6	1571	−159	494	+ 112	110	− 8	16·27	414	− 70	4·3	−0·2	33	1013
8. ENGLAND, S.W.	85	15	85·4	78·5	81·8	− 0·7	1731	−182	409	+ 108	112	− 5	21·39	544	+ 22	5·0	+0·1	38	1014
9. IRELAND, NORTH ...	78	22	84·6	78·1	81·2	− 0·6	1496	−171	437	+ 97	135	− 9	18·31	461	− 83	4·1	+0·1	31	1012
10. IRELAND, SOUTH ...	80	22	85·7	78·8	82·1	− 0·6	1774	−169	362	+ 102	129	+ 2	18·80	479	− 92	4·4	−0·1	33	1014
11. ENGLISH CHANNEL ...	82	26	85·9	80·6	83·2	− 0·5	1994	−189	137	+ 32	116	− 5	22·65	573	+148	5·3	−0·5	41	1015
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F			inches.	mm.	mm.	hr.	hr.	%	m.m

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: August 15th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 33.

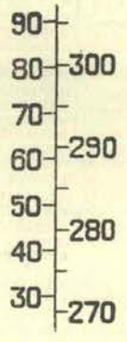
THE THIRTY-THIRD WEEK OF 1919.

SUNDAY, AUGUST 10TH, TO SATURDAY, AUGUST 16TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

Anticyclonic conditions prevailed over the southern portions of the United Kingdom for the greater part of the week, while the northern Districts were, more or less, under the influence of depressions over the Iceland region. At the close of the week a definite change to a south-westerly type was in progress. The mean temperature was still above the normal in all Districts, the greatest excess being 3·4 a. over the Midland Counties, and the smallest 1·2 a. in Scotland N. The highest maxima during the week (about 302 a.) approximated very closely to those of the 32nd week; at several stations in England S.E. temperature rose to 300 a. or above each day. At Norwich on the 14th there was a sudden inrush of North wind about noon and a great drop in temperature from 297 a. to 288 a. during the next hour. Similar phenomena were observed at other stations over the eastern half of England. The minima, which varied a good deal, were in some instances quite low, the readings on the morning of the 15th being 274 a. at Eskdalemuir, 276 a. at Geldeston (Beccles) and 277 a. at Newton Rigg (Penrith), though on the following night at many places in the southern half of England temperature failed to go below 290 a. In spite of the heat of the last few weeks temperature aggregates for the Summer Season (from June 1st) and also for the year are still below the normal in all Districts. The rainfall of the week was again less than the normal in all parts of the British Isles, at many places in the southern districts the week was rainless. The season's rainfall (from June 1st) has been deficient in all Districts, for England S.W. the total, 78mm., is only 44 per cent. of the normal, for England N.W. 87mm., 47 per cent., for Scotland E. 83mm., 49 per cent., and for the English Channel District 67mm., 50 per cent. Bright sunshine was abundant in all Districts except Scotland N. Solar halos were observed on the 10th at Oxford, Tenbury and Ross-on-Wye, on the 13th at Oxford, and on the 16th at Oxford and Ross-on-Wye; there was a lunar halo at Oxford on the 12th. Slight thunderstorms were experienced over a large part of Great Britain on the 16th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E. Shoeburyness.†		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	17	2·9	19	2·4	15	1·9	12	1·3	19	2·5	4	2·8	17	2·8	16	2·4
North	4	1·5	3	0·8	7	3·0	7	1·6	6	1·8	21	1·8	4	2·6	1	0·2
West	23	6·6	23	6·3	15	2·8	14	2·3	22	3·5	18	2·7	14	5·4	15	2·3
East	1	3·7	1	1·7	8	3·6	5	1·8	3	2·4	8	2·5	9	2·3	4	1·6
Calm	1	—	4	—	4	—	9	—	3	—	0	—	3	—	9	—

* For Deerness the week ends at midnight on Friday. † Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with normal for the time of year ...	Warmth ...	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Unusual	Unusual	Very unusual	Very unusual	Very unusual	Very unusual
	Rainfall ...	Light	Light	Light	Very light	Very light	Very light	Light	Very light	Very light	Very light	Very light	Very light
	Sunshine ...	Scanty	Abundant	Very abundant	Very abundant	Very abundant	Very abundant	Abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SUMMER. 11 weeks from June 1st, 1919.	Warmth ...	1, 7, 3	2, 4, 5	5, 1, 5	3, 2, 6	4, 3, 4	2, 3, 6	3, 3, 5	3, 3, 5	3, 2, 6	3, 3, 5	3, 3, 5	2, 3, 6
	Rainfall ...	3, 2, 6	0, 5, 6	1, 2, 8	4, 2, 5	2, 4, 5	1, 4, 6	2, 2, 7	0, 3, 8	0, 5, 6	1, 4, 6	1, 5, 5	1, 5, 5
	Sunshine ...	2, 4, 5	5, 4, 2	3, 3, 5	4, 2, 5	4, 2, 5	4, 2, 5	5, 5, 1	3, 6, 2	5, 4, 2	5, 4, 2	7, 2, 2	2, 5, 4

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(24761—19.) Wt. 162—833/512. 625. 8/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.					Grass Min.		Earth 1 ft.		Earth 4 ft	
						Of Daily Max.	Of Daily Min.	Daily Mean.							Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Frosts	Lowest Reading.	Mean	Deviation from Average	Mean.	Deviation from Average
	Ft.	°F.		°F		°F.	°F.	°F.	°F.		in	mm.	mm.		hr.	hr.	°/₀		°F.	°F.	°F.	°F	°F.
0. SCOTLAND, N.																							
a. Islands .. a Lerwick ..	54	58	14th	45	15th	56·1	49·3	52·5	- 0·1	5	0·59	15	- 1										
a Houton Bay, Orkney	520	60	16th	46	15th	56·0	48·0	51·8	—	6	0·56	14	- 2	Houton Bay ..	1·3	- 2·9	8	•	•	•	•	•	•
a Stornoway	51	64	12, 13	50	10th	61·7	52·9	57·0	+ 2·7	3	0·47	12	- 10	Stornoway ..	3 8	- 0·8	25	•	•	•	•	•	•
a Castlebay, Barra I. ..	37	60	12, 16	52	14th	59·1	53·7	56·2	—	4	1·30	33	—	Castlebay ..	4·0	·	27	•	•	•	•	•	•
b, Mainland. a Wick	81	70	12th	47	10, 15	61·9	50·3	55·8	+ 1·7	3	0·09	2	- 13										
a Strathpeffer	125	72	15, 16	49	15th	66·0	52·3	58·7	+ 2·8	1	0·04	1	- 13										
p Glencarron	500	—	—	—	—	—	—	—	—	—	—	—	—										
a Fort Augustus.. ..	68	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William	171	71	15th	48	15th	66·6	52·7	59·2	+ 2·9	5	1·13	29	- 5										
1. SCOTLAND, E.																							
a Nairn	82	73	16th	48	15th	68·7	52·9	60·3	+ 4·5	4	0·17	4	- 15	Nairn	5·2	—	34	•	•	•	•	•	•
p Gordon Castle	101	74	15, 16	48	15th	69 0	52·9	60·5	+ 4·6	2	0·22	6	- 9	Gordon Castle..	5·0	—	33	•	•	•	•	•	•
a Aberdeen	46	74	11, 12	48	10th	69·0	52 4	60·2	+ 4 4	4	0·69	17	0	Aberdeen ..	5·9	+ 1·0	39	0	40	•	•	54·3	0·0
a Balmoral	930	75	16th	44	14th	69·7	51·4	60·0	+ 6·9	2	0·07	2	- 17	Balmoral ..	•	•	•	0	38	•	•	•	•
p Crieff	482	78	15th	44	15th	70·6	51·0	60·2	+ 3 4	3	0·17	4	- 17	Crathes	5·6	+ 1·2	37	0	36	60·0	+1·9	55·0	-0·6
a Dundee	244	79	10th	45	15th	73 0	52·1	61 9	+ 5·1	3	0·39	10	- 16	Dundee	9·0	—	60	0	39	60·3	•	•	•
a Leith	30	72	10, 12, 16	48	15th	70·1	53·9	61·5	+ 3·6	3	0·13	3	- 15	Leith	—	—	—	0	41	•	•	•	•
p Edinburgh	441	73	10th	48	15th	70·0	53·0	61·0	+ 4·7	2	0·11	3	- 15	Edinburgh ..	7·6	+ 2·7	51	0	39	•	•	•	•
a West Linton	769	71	15th	36	15th	66·9	48·6	57·2	+ 3·7	3	0·29	7	—	West Linton ..	6·6	—	44	0	32	•	•	•	•
p Marchmont	498	76	10, 15	44	15th	72·1	51·0	60·9	+ 5·2	2	0·39	10	- 10	Marchmont .	7·4	+ 2·6	49	•	•	•	•	•	•
6. a, SCOTLAND, W.																							
a Ford (Argyll)	149	69	15, 16	46	15th	64·6	52·3	58·1	—	6	1·45	37	—	Ford (Argyll) ..	•	•	•	0	41	60·1	—	55·8	—
p Glasgow Observatory	180	74	15th	50	15th	67·1	54·0	60·2	+ 3·2	3	0·25	6	- 16	Glasgow.. ..	5·6	+ 1·3	37	0	40	•	•	•	•
p Rothesay	200	66	15th	49	14, 15	63·9	52 1	57·7	+ 0·7	4	0·49	12	- 16	Rothesay ..	4·8	—	32	0	45	60·0	—	55·9	-0·1
a Kilmarnock	90	76	15th	45	15th	68·7	54·1	61·0	+ 5·0	4	0·43	11	- 13	Kilmarnock ..	5·3	—	36	•	•	60·1	—	54·9	—
a Colmonell	170	72	12, 15	43	15th	68·7	53·7	60·8	+ 4 8	3	0·33	8	- 15	Colmonell ..	•	•	•	0	40	•	•	•	•
p Cally, Gatehouse ..	120	73	10, 12	41	15th	71·0	50·7	60·2	+ 4·3	2	0·24	6	- 20	Dumfries ..	6·8	—	46	0	35	60·9	+0·1	56·0	-3·4
p Dumfries	160	76	10th	41	15th	72·3	51·1	61·1	+ 3·3	3	0·32	8	- 14	Eskdalemuir ..	6·1	—	41	1	30	•	•	•	•
a Eskdalemuir	794	73	12th	34	15th	69·0	45·3	56·4	—	4	0·29	7	—										
b, I. OF MAN p Douglas	277	72	12, 16	48	15th	69·0	53·6	60·8	+ 3·7	2	0·13	3	- 19	Douglas	6·9	+ 1·0	46	0	44	•	•	•	•
2. ENGLAND, N.E.																							
a North .. a Alnwick Castle ..	210	79	10th	43	15th	74·0	53·0	62·9	+ 6·1	2	0·23	6	- 12										
a Tynemouth	71	80	10th	49	15th	72·0	53·3	62·1	+ 4·8	3	0·16	4	- 12	Cockle Park ..	7·7	+ 2·6	52	0	39	61·0	+3·2	56·4	+0·4
p Durham	336	81	10th	41	15th	76·4	50·4	62·6	+ 5·2	3	0·22	6	- 8	Durham	7·9	+ 3·1	53	0	41	•	•	•	•
p Rounton	249	80	11th	46	15th	75·0	51·3	62·4	+ 5·5	2	0·19	5	- 11	Rounton	•	•	•	0	35	60·7	•	•	•
a West Witton	605	77	10, 15	44	15th	73·7	52·9	62·7	—	3	0·19	5	—	West Witton ..	•	•	•	0	39	60·4	—	53·6	—
p Scarborough	100	80	12th	50	15th	76·0	54·6	64·7	+ 6·2	2	0·37	9	- 7	Scarborough† ..	8·5	+ 3·2	57	•	•	•	•	55·1	—
p York	56	81	10th	47	15th	76·7	53·0	64·1	+ 4·9	3	0·14	4	- 11	York	8 8	+ 4 0	60	—	—	61·8	+1·6	57·1	-0·5
b, South .. a Spurn Head	26	77	12th	50	15th	72 0	56·7	63·9	+ 4·5	1	0·08	2	- 10	Spurn Head ..	—	—	—	•	•	•	•	•	•
a Lincoln	58	83	12th	46	15th	78·7	52·6	64·9	+ 5·1	0	0·00	0	- 14	Lincoln	•	•	•	0	43	62·8	+1·0	57·5	-0·8
a Fulbeck	180	83	12th	47	15th	79·4	51·7	64·7	+ 5·1	1	0·07	2	- 13	Fulbeck* ..	9·9	+ 3·9	67	•	•	—	—	—	—
														Skegness ..	9·8	+ 3·6	67	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	80	16th	45	15th	76·6	54·7	65·0	+ 5·1	2	0·02	1	- 11	Cromer	9·5	+ 3·2	65	•	•	•	•	•	•
a Little Massingham ..	280	82	10, 12	45	15th	78·4	52·4	64·6	+ 4·8	1	0·01	0·3	- 16	Lit. Massingham	10·5	+ 4·5	72	•	•	•	•	•	•
a Yarmouth	13	85	10th	45	15th	74·7	54 6	64 1	+ 4·0	1	0·20	5	- 9	Yarmouth ..	10·5	—	72	0	45	63·4	- 0·8	59·1	- 2·3
a Norwich	93	84	10th	41	15th	79·4	53·3	65·6	+ 5·2	1	0·06	2	- 11	Norwich ..	10·4	—	71	0	37	64·3	•	•	•
a Geldeston	37	86	10th	38	15th	80·3	51·0	64·8	+ 4·7	1	0·05	1	- 11	Geldeston ..	10·5	+ 4·2	72	•	•	•	•	•	•
p Cambridge	41	85	12th	41	15th	81·0	51·3	65·3	+ 4 6	1	0·02	1	- 12	Cambridge ..	11·4	+ 5·1	78	0	41	65·4	+2·5	59·5	-0·9
a Clacton-on-Sea ..	54	79	13, 14	53	15th	74·0	56·9	64·9	+ 3·9	1	0·14	4	- 6	Clacton	10·9	+ 3·8	75	0	48	64·6	+2·7	59·8	-0·7
a Rothamsted	424	83	12th	48	15th	78·6	53·3	65·2	+ 5·7	0	0·00	0	- 14	Rothamsted ..	10·4	+ 4·2	71	0	40	63·9	•	•	•
p Tottenham	51	85	10th	53	15th	81·6	57·6	68·9	—	0	0·00	0	—	Tottenham ..	10·5	—	73	0	52	•	•	62·0	+0·2
														S'thend-on-Sea	11·1	—	77	0	53	68·5	+1·4	—	—
4. MIDLAND COUNTIES.																							
a North .. a Harrogate	479	77	15th	47	15th	73·1	52 3	62·1	+ 4·5	2	0·16	4	- 12	Harrogate ..	9·6	+ 4·3	65	0	39	58·8	+1·2	56·1	-0·4
p Sheffield	429	80	12, 15	50	15th	75·7	56·0	65·3	—	1	0·03	1	—	Sheffield.. ..	9·6	+ 4·4	65	0	42	61·7	+2·4	55·4	-0·7
p Buxton	987	77	12th	48	15th	72·6	53·0	62·2	—	1	0·01	0·3	- 24	Buxton	8·6	—	59	0	43	62·6	+3·7	55·2	-0·2
b, East .. a Bawtry	65	83	12th	45	15th	77·4	51·6	63·7	+ 4·2	1	0·03	1	- 12	Worksop ..	8·8	+ 4·0	60	0	35	61·8	—	56·9	—
a Nottingham	82	83	12th	44	15th	78·7	52·3	64·7	+ 5·1	0	0·00	0	- 14	Nottingham ..	8·6	+ 3·0	59	0	39	63·6	+2·7	59·1	- 0 2
p Birmingham, Edgbsn.	535	83	12th	52	15th	78·6	56·1	66·7	+ 7·3	1	0·11	3	- 12	Birmingham ..	9·2	+ 4·4	63	0	40	61·7	+4·8	53·6	-0·2
a Raunds	203	86	12, 13	42	15th	82·0	51·3	65·7	+ 5·2	1	0·05	1	- 14	Raunds	10·8	—	74	0	34	63·4	—	56·5	—
p Oxford	208	83	12th	51	15th	80·6	55·7	67·4	+ 6·7	0	0·00	0	- 13	Oxford	10·3	+ 4·2	71	0	46	•	•	•	•
														Malvern	10·8	—	74	0	47	65·6	—	61·0	—
c, West .. a Cheadle (N. Staffs.) ..	646	83	12th	49	15th	77·3	54·1	65·0	+ 7·2	0	0·00	0	- 19	Cheadle	•	•	•	0	49	•	•	•	•
p Tenbury	313	85	11th	46	13th	81·1	50·0	64·6	+ 5·8	1	0·12	3	- 13	Tenbury	•	•	•	0	42	64·7	—	—	—
p Ross-on-Wye	201	84	12, 13	49	13th	82·0	53·0	66·6	+ 6·6	0	0·00	0·1	- 14	Ross-on-Wye ..	11·1	—	76	0	44	—	—	—	—
a Clifton	226	82	15th	56	11th	77·6	59·4	68·0	+ 6·2	0	0·00	0	- 24	Clifton	10·8	—	75	0	54	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	81	10, 11, 13	45	11, 12	79·4	50·1	63·9	+ 5·5	0	0·00	0	- 15	Worthing ..	12·0	+ 4·7	83	0	49	65·4	+1·4	59·5	-1·5
p Salisbury (Wilton) ..	180	84	12th	50	10th	81·2	54 2	66 9	+ 6·6	1	0 01	0	- 16	Marlborough ..	9·0	+ 3 2	63	0	39	62·5	—	57·2	—
a Wisley, Surrey ..	150	85	10, 12	51	12th	82·0	53·6	67·0	+ 6·4	0	0·00	0	- 12	Salisbury ..	•	•	•	0	46	66 9	•	•	•
a Tunbridge Wells ..	354	84	10, 13	51	10th	81·3	54 0	66·8	+ 6·4	0	0·00	0	- 14	Wisley	11·3	+ 4·8	78	0	40	63·5	+0·8	58·3	- 2·0
a Margate	51	83	10, 12	55	15th	77·4	60·1	68·2	+ 6·3	0	0·00	0	- 11	Tunbridge Wells	10·7	+ 4·0	74	0	42	63·7	- 0·9	58·8	—
														Margate	9·9	+ 3·5	69	0	48	69·1	+6·4	62·5	+2·3
a Dungeness	21	73	10, 11	53	10, 12	70·9	55·6	62·8	+ 1·5	0	0·00	0	- 11	Folkestone ..	10·5	—	73	•	•	•	•	55·3	—
p St. Leonards	178	77	10, 13, 14	55	15th	74·9	59·0	66·5	+ 5·2	0	0·00	0	- 14	St. Leonards ..	11·8	+ 4·7	82	0	50	66·8	—	59·9	—
p Southampton	64	83	10–12	54	10th	81·3	56·6	68 2	+ 6·1	1	0·04	1	- 14	Southampton ..	11·4	+ 4·5	79	0	44	•	•	•	•
a Ventnor	59	80	13th	56	10th	74·7	59·0	66·4	+ 4·3	0	0·00	0	- 12	Ventnor	11·1	+ 4·3	77	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	84	12th	55	10, 12	80·6	57·0	68·1	+ 6·8	0	0·00	0	- 13	Richmond ..	11·0	+ 4·7	76	0	45	65·5	+3·2	58·1	-0·9
a Westminster	27	85	12th	56	10, 12	82·4	57·8	69·4	+ 7·2	0	0·00	0	- 13	Westminster ..	11·0	+ 5·3	76	0	50	•	•	•	•
ag Greenwich	149	88	12th	52	15th	83·9	54·9	65·5	+ 6·5	0	0·00	0	- 12	Greenwich ..	11·3	+ 4·4	78	0	40	•	•	•	•
a Hampstead	450	83	10, 12	53	15th	80·3	57·7	68·3	—	0	0·00	0	—	Hampstead ..	11·0	—	76	0	47	•	•	•	•
ag Camden Square ..	110	87	10, 12	55	15th	84·3	57·0	69·8	+ 7·0	0	0·00	0	- 13	Camden Square	10·1	+ 4·7	70	0	52	•	•	•	•
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	73	15th	46	15th	68·3	52·6	60·0	+ 2·5	1	0·25	6	- 17	Aspatria.. ..	7·0	+ 1·9	47	0	43	59·8	+0·2	55·3	-0·5
p Newton Rigg	559	75	11, 15	39	15th	72·0	49·0	59·8	+ 3·2	2	0·18	5	- 14	Newton Rigg ..	8·4	+ 3·3	56	0	32	60·9	+1·0	56·5	0·0
p Stonyhurst	375	76	15th	45	15th	70·3	53·6	61·5	+ 3·9	2	0·21	5	- 22	Stonyhurst ..	7·2	+ 2·2	49	0	41	•	•	•	•
p Blackpool	66	75	15th	46	15th	70·3	53·6	61·5	+ 2·9	1	0·04	1	- 18	Blackpool ..	7·4	+ 1·4	50	0	34	60·2	—	55·5	—
a Southport	37	79	15th	48	15th	70·1	54·6	61·9	+ 3·11	1	0·02	1	- 17	Southport ..	8·3	+ 2·4	56	0	40	64·5	+1·5	60·5	-0·7
														Hoylake ..	9·2	+ 3·6	63	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	80	15th	53	15th	70·3	56·4	62·9	+ 3·6	2	0·05	1	- 15	Liverpool ..	9·1	—	62	0	46	•	•	•	•
a Hawarden Bridge ..	22	81	15th	51	10, 11	75·0	55·3	64·6	+ 4·5	1	0·16	4	- 11	Manchester(City)	6·7	+ 2·7	46	0	46	62·1	+1·0	59·5	-0·3
p Manchester (Whit. Pk.)	125	81	15th	49	15th	75·0	54·3	64·0	+ 4·3	0	0·00	0	- 18	Whitworth Park	7·8	+ 3·6	53	•	•	•	•	•	•
b NORTH WALES.																							
p Llandudno	16	73	15th	51	15th	70·0	55·1	62·1	+ 2·4	1	0·01	0·2	- 16	Llandudno ..	8·4	+ 2·5	57	•	•	•	•	•	•
a Holyhead	15	72	15th	54	12th	69·4	56·4	62·5	+ 3·9	2	0·05	1	- 16	Holynead ..	7·3	—	50	0	42	•	•	•	•
a Beddgelert	309	76	15th	48	11, 12	68·6	52·7	60·2	+ 2·1	4	0·20	5	—	Aberdovey ..	—	—	—	•	•	•	•	•	•
a Aberdovey	42	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
8. *a.* SOUTH WALES.																							
a Aberystwyth	59	70	15th	53	12th	68·4	58·0	62·9	—	1	0·01	0	—	Aberystwyth	9·0	+ 3·3	62	•	•	•	•	•	•
a Rhayader	767	78	15th	42	12th	73·6	49·3	60·7	—	1	0·16	4	—	Rhayader	9·3	—	64	0	36	•	•	•	•
a St. Ann's Head	149	70	15th	53	12th	67·3	56·0	61·3	+ 2·5	2	0·08	2	- 15	St. Ann's Head	9·2	+ 2·8	63	*	*	•	•	•	•
p Cardiff	202	80	12th	53	12th	76·6	57·4	66·4	+ 6·7	0	0·00	0	- 22	Cardiff	10·2	—	71	0	45	65·7	+3·6	59·3	-0·1
b, ENGLAND, S.W.																							
a Bath	66	83	12th	51	10th	79·6	56·4	67·3	+ 7·0	0	0·00	0	- 15	Bath	•	•	•	—	—	66·4	+2·0	61·3	-0·4
a Shaftesbury	722	79	11, 12	53	11th	76·7	56·1	65·8	+ 6·7	1	0·15	4	- 11	Shaftesbury	•	•	•	•	•	66·8	•	60·1	—
a Arlington	613	75	13, 15	48	13th	73·1	54·4	63·2	+ 5·0	0	0·00	0	- 27										
a Newquay	190	74	15, 16	52	15th	70·6	58·1	64·0	+ 3·9	0	0·00	0	- 14	Newquay	9·8	+ 3·1	68	0	50	66·4	—	59·7	—
a Cullompton	202	84	11, 12	49	12th	81·4	53·3	66·5	+ 6·7	1	0·10	3	- 13	Cullompton	9·3	+ 3·3	65	0	44	67·8	•	—	—
a Portland Bill	19	70	12th	58	10, 11	68·0	58·7	63·1	+ 2·4	1	0·04	1	- 10	Weymouth	—	—	—	•	•	•	•	•	•
p Plymouth	116	79	13th	57	12, 13, 15	75·1	58·1	66·1	+ 5·5	0	0·00	0	- 16	Plymouth	9·9	+ 3·3	69	0	52	68·7	+4·9	60·8	—
a Falmouth	167	78	11th	56	13th	75·3	58·6	66·5	+ 6·5	0	0·00	0	- 17	Falmouth	10·3	+ 3·3	72	0	49	67·6	—	63·0	—
9. IRELAND, N.																							
a West *a* Malin Head	208	72	15th	50	14th	63·0	54·6	58·6	+ 1·6	3	0·91	23	+ 4	Malin Head	5·9	—	40	•	•	•	•	•	•
a Blacksod Point	37	72	15th	55	11th	68·0	56·6	62·0	+ 4·2	2	0·12	3	- 21	Markree Castle	6·0	+ 1·4	40	0	42	63·5	+2·8	57·7	+0·6
p Markree Castle	122	73	16th	46	11th	70·1	52·1	60·6	+ 3·9	3	0·37	9	- 14										
b, East *p* Armagh	196	76	11, 15	51	11, 14	73·6	54·6	63·5	+ 6·1	2	0·34	9	- 10	Armagh	8·4	+ 3·7	56	0	46	62·8	+1·8	57·6	-0·5
a Donaghadee	39	75	16th	49	11, 15	68·1	52·0	59·6	+ 2·1	2	0·32	8	- 10										
10. IRELAND, S.																							
p Dublin, City	47	74	11, 13, 15	54	11th	72·0	58·0	64·6	+ 5·3	2	0·11	3	- 14	Trinity Coll.	•	•	•	—	—	—	—	—	—
a Birr Castle	175	75	16th	50	11th	71·7	56·1	63·4	+ 5·6	3	0·06	2	- 19	Phœnix Park	7·0	+ 1·5	48	0	38	•	•	•	•
a Kilkenny	212	78	11th,	49	12th	74·9	54·7	64·2	+ 6·1	2	0·05	1	- 18	Dublin City	*	•	•	0	50	•	•	•	•
a Waterford	120	78	13, 14	53	10, 12	75·9	55·1	64·9	+ 5·8	0	0·00	0	- 21	Birr Castle	5·0	+ 0·2	34	0	45	•	•	•	•
p Seskin, Carrick-on-Suir	541	81	14th	53	11th	77·3	55·4	65·7	—	1	0·03	1	—	Seskin	8·1	—	55	0	44	•	•	•	•
a Cahir	199	78	14th	47	11th	74·1	52·7	62·8	+ 4·4	3	0·05	1	—										
a Foynes	50	76	15th	52	12th	73·9	56·4	64·6	+ 6·2	3	0·10	3	- 18										
a Cahirciveen (Val. Obs.)	30	74	15th	52	12th	69·7	57·9	63·5	+ 4·8	2	0·12	3	- 23	Cahirciveen	7·5	+ 2·2	51	0	48	•	•	•	•
a Killarney	174	80	14th	49	12th	76·8	56·4	66·0	+ 7·1	1	0·16	4	- 20	Ballinacurra	8·3	+ 3·1	58	•	•	•	•	•	•
a Roche's Point	32	75	16th	53	12th	70·7	56·7	63·3	+ 4·4	4	0·11	3	- 18										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's	131	74	14th	58	10, 13	71·6	58·6	64·7	+ 3·8	2	0·02	1	- 13	Scilly	11·0	+ 3·7	76	•	•	•	•	•	•
a Jersey, St. Aubins	25	85	15th	54	16th	75·1	58·6	66·4	+ 3·5	0	0·00	0	- 13	St. Heliers	10·4	+ 2·5	73	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	77	12th	56	12th	73·3	58·6	65·5	+ 3·1	0	0·00	0	- 13	Guernsey†	10·9	+ 2·9	76	0	49	65·8	+1·4	61·2	-0·8

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, August 16th, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m.p.h.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)**	188	16	5	—	—	11, 14	6	102	50	10	0	270	13	14	10	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	2	80	84	2	315	6	14	11	14	10	13	30
Aberdeen	163	105	52	—	—	—	—	21	95	52	0	304	9	14	14	14	14	11	5
Edinburgh	485	39	31	—	—	—	—	98	44	26	0	247	10	11	23	14	11	18	30
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	—	—	48	73	47	0	310	10	10	18	14	10	17	40
Paisley	188	81	15	—	—	—	—	6	118	42	2	259	7	13	13	15	13	16	50
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
South Shields	72	61	12	—	—	—	—	51	70	37	10	293	10	11	8	15	13	11	20
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.)	73	60	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	—	—	47	81	40	0	—	10	14	13	15	14	12	15
Shoeburyness	103	90	‡	—	—	—	—	27	122	19	0	56	8	14	16	13	14	11	45
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	5	100	63	0	113	8	16	1	13	16	1	10
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	10	88	70	0	—	8	16	2	12	16	1	15
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument out of adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	39	120	9	0	280	9	16	13	12	16	10	55
Richmond (Kew Obs.)	82	65	22	—	—	—	—	2	107	59	0	34	6	14	17	11	14	16	30
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	5	50	113	0	203	6	13	13	11	13	12	40
Fleetwood (Cup Anr.)	109	44	—	—	—	—	—	49	106	13	0	304	6	10	17	—	—	—	—
Southport	80	62	48	—	—	10, 14	3	57	103	5	0	247	12	14	8	20	14	8	25
Holyhead	60	40	‡	—	—	—	—	44	88	36	0	281	10	14	9	16	14	8	45
8. ENGLAND, S.W.																			
Pendennis Castle§	256	65	24	—	—	—	—	43	115	10	0	90	10	15	7	13	16	17	10
Plymouth	185	88	2	—	—	—	—	6	119	43	0	—	7	15	18	13	15	19	5
Lyme Regis (Rousdon)	600	65	30*	—	—	—	—	1	54	113	0	—	6	15	23	10	15	23	15
10. IRELAND, S.																			
Kingstown (Cup Anr.)	49	27	—	—	—	—	—	50	102	16	0	259	11	14	8	—	—	—	—
Quilty	100	40	‡‡‡	—	—	—	—	44	84	15	25	—	10	16	18	14	16	17	30
Cahirciveen (Val. Obs.)	98	41	‡‡	—	—	—	—	17	112	39	0	220	8	16	14	12	16	15	30
Weaver Pt.	160	30	‡‡	—	—	—	—	41	118	4	5	—	9	16	15	15	16	15	25
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	8	54	106	0	135	7	15	11	11	15	13	30

† More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.
* Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

THIRTY-THIRD WEEK of 1919—August 10th to August 16th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Mean Pressure at M.S.L.
	At any "D.-V." Station.		Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	72	45	89·9	83·8	86·7	+ 1·2	102	+ 13	0	0	3	− 2	0·46	12	− 11	2·6	−1·5	17	1016
Eastern.																			
1. SCOTLAND, EAST ..	76	36	93·8	84·0	88·6	+ 2·4	127	+ 31	0	0	3	− 1	0·27	7	− 12	6·8	+2·1	45	1017
2. ENGLAND, N.E.	83	41	97·2	84·7	90·6	+ 3·0	151	+ 37	0	0	2	− 2	0·16	4	− 11	8·8	+3·5	59	1020
3. ENGLAND, EAST ...	86	38	98·7	85·2	91·6	+ 2·9	164	+ 36	0	0	1	− 2	0·06	2	− 10	10·5	+4·3	72	1021
4. MIDLAND COUNTIES ...	86	42	99·0	85·0	91·6	+ 3·4	165	+ 44	0	0	1	− 2	0·05	1	− 13	9·8	+4·2	67	1021
5. ENGLAND, S.E.	85	45	98·8	86·3	92·2	+ 3·0	172	+ 38	0	0	0	− 3	0·01	0	− 13	10·9	+4·1	76	1021
Western.																			
6. SCOTLAND, WEST ..	76	41	93·1	84·5	88·6	+ 1·8	126	+ 21	0	0	3	− 1	0·43	11	− 14	6·3	+1·1	42	1020
7. ENGLAND, N.W.	81	39	94·8	85·3	89·7	+ 2·0	141	+ 26	0	0	1	− 3	0·10	3	− 16	8·0	+2·8	55	1021
8. ENGLAND, S.W.	84	42	96·7	86·2	91·2	+ 2·9	159	+ 36	0	0	1	− 3	0·05	1	− 17	9·5	+3·3	66	1023
9. IRELAND, NORTH ...	76	46	93·6	85·4	89·3	+ 2·2	135	+ 28	0	0	3	− 2	0·35	9	− 12	7·2	+2·5	48	1020
10. IRELAND, SOUTH ...	80	47	95·9	86·3	90·8	+ 3·0	155	+ 39	0	0	2	− 2	0·08	2	− 19	7·0	+1·7	48	1022
11. ENGLISH CHANNEL ...	85	54	95·9	87·8	91·6	+ 2·0	165	+ 26	0	0	1	− 3	0·01	0	− 14	10·8	+3·1	75	1023

THE SEASON (Summer).—Aggregates, &c., for the Period of 11 Weeks, June 1st to August 16th, 1919.

0. SCOTLAND, NORTH ..	75	38	88·2	81·8	84·8	− 0·5	864	− 70	0	− 1	43	− 4	6·79	174	− 33	4·0	−0·4	23	1016
Eastern.																			
1. SCOTLAND, EAST ...	78	29	90·5	81·5	85·7	− 0·4	993	− 49	0	0	32	− 9	3·21	83	− 87	6·0	+0·7	36	1016
2. ENGLAND, N.E.	84	38	91·6	82·8	86·9	− 0·3	1163	− 26	0	0	33	− 3	3·56	90	− 58	5·7	−0·2	35	1017
3. ENGLAND, EAST ..	86	32	92·3	83·1	87·4	− 0·8	1220	−116	0	0	27	− 7	3·98	102	− 33	6·2	−0·4	39	1018
4. MIDLAND COUNTIES ...	86	35	92·6	82·9	87·7	− 0·2	1265	− 25	0	0	26	− 8	3·95	100	− 47	6·0	+0·1	38	1019
5. ENGLAND, S.E.	86	35	92·8	83·5	87·9	− 0·7	1292	− 97	0	0	24	− 8	3·03	76	− 52	6·6	−0·4	42	1019
Western.																			
6. SCOTLAND, WEST ...	77	34	90·3	82·3	86·0	− 0·6	1039	− 81	0	0	37	− 5	6·78	172	− 44	6·7	+0·9	41	1018
7. ENGLAND, N.W.	83	36	90·8	83·4	86·9	− 0·5	1150	− 70	0	0	28	−11	3·44	87	− 97	6·0	0·0	37	1019
8. ENGLAND, S.W.	85	35	92·1	83·6	87·5	− 0·3	1244	− 44	0	0	24	−14	3·14	78	− 98	7·4	+0·9	47	1021
9. IRELAND, NORTH ...	78	36	89·8	82·9	86·1	− 0·5	1051	− 70	0	0	38	−10	5·49	139	− 61	5·2	+0·3	32	1019
10. IRELAND, SOUTH ..	80	36	91·7	83·7	87·4	− 0·1	1228	− 19	0	0	32	− 9	3·97	100	− 96	5·9	+0·4	37	1022
11. ENGLISH CHANNEL ...	85	46	91·5	85·2	88·1	− 0·5	1328	− 71	0	0	20	−16	2·67	67	− 67	7·8	0·0	50	1022

THE YEAR 1919.—Aggregates, &c., for the Period of 33 Weeks, December 29th, 1918, to August 16th, 1919.

0. SCOTLAND, NORTH ...	78	11	83·1	77·0	79·9	− 0·6	1255	−121	680	+ 141	135	−16	22·42	572	−165	3·7	+0·1	27	1012
Eastern.																			
1. SCOTLAND, EAST ...	78	5	84·0	76·4	80·0	− 0·8	1416	−140	787	+ 170	113	−16	14·55	374	− 89	4·2	0·0	32	1012
2. ENGLAND, N.E.	84	11	85·0	77·7	81·2	− 0·4	1675	− 87	578	+ 106	117	+ 1	14·45	367	− 3	4·2	−0·4	32	1013
3. ENGLAND, EAST ...	86	10	85·6	77·8	81·6	− 0·6	1823	−211	580	+ 86	109	− 3	14·76	378	+ 27	4·6	−0·4	35	1014
4. MIDLAND COUNTIES ...	86	9	85·7	77·7	81·6	− 0·5	1884	−128	628	+ 106	105	− 6	17·24	438	+ 43	4·3	−0·1	33	1014
5. ENGLAND, S.E.	86	16	86·2	78·6	82·2	− 0·6	1999	−158	451	+ 72	107	− 1	16·89	427	+ 50	4·7	−0·5	36	1014
Western.																			
6. SCOTLAND, WEST ...	83	14	84·7	77·7	81·0	− 0·6	1567	−143	539	+ 123	123	−13	21·59	548	−125	4·6	+0·2	35	1013
7. ENGLAND, N.W.	83	16	84·9	78·4	81·5	− 0·6	1712	−133	494	+ 112	111	−11	16·37	417	− 86	4·4	−0·1	33	1014
8. ENGLAND, S.W.	85	15	85·7	78·8	82·1	− 0·6	1890	−146	409	+ 108	113	− 8	21·44	545	+ 5	5·1	+0·2	39	1015
9. IRELAND, NORTH ...	78	22	84·9	78·3	81·5	− 0·5	1631	−143	437	+ 97	138	−11	18·66	470	− 95	4·2	+0·2	32	1013
10. IRELAND, SOUTH ...	80	22	86·0	79·1	82·4	− 0·4	1929	−130	362	+ 102	131	0	18·88	481	−111	4·4	−0·1	34	1014
11. ENGLISH CHANNEL ...	85	26	86·2	80·8	83·4	− 0·5	2149	−163	137	+ 32	117	− 8	22·66	573	+134	5·5	−0·4	42	1015
	°F	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm	mm.	hr.	hr.	%	m

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: August 22nd, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN

FORTY-SECOND YEAR. *Vol. XXXVI. (New Series.)* } No. 34.

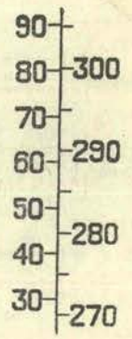
THE THIRTY-FOURTH WEEK OF 1919.

SUNDAY, AUGUST 17TH, TO SATURDAY, AUGUST 23RD, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d

I.—GENERAL SUMMARY. [First published in 1878.]

The general character of the weather during this week was changeable and unsettled. Barometric pressure was highest over the Bay of Biscay and France, while depressions from the Atlantic passed across the United Kingdom. The winds were mostly from S.W. or W., and early in the week they were of considerable strength, attaining gale force at several places in the Northern and North-Western Districts. The highest maximum temperatures occurred on the 17th, when readings of 300 a. and above were registered in most parts of England. After that date the day temperatures in many parts of England became much lower, the drop being as much as 9 a. to 11 a. At the same time the nights were very warm, some minima being no lower than 291 a., while a night or two later the thermometer went down to 280 a. and below. At Tenbury at 11 h. on the 19th there was a sudden fall of temperature from 292 a. to 287 a., accompanied by a ground mist, like smoke. At Crathes (Kincardineshire) on the mornings of the 21st and 23rd the grass thermometer descended to below the freezing point. The mean temperature for the week was slightly below normal in Scotland N., and in Scotland E., but above it in all other Districts. Rainfall was in excess of the normal in Scotland N., and slightly so in Scotland W., England N.W., England E. and the Midland Counties, but elsewhere there was again a shortage. Individual amounts of 20mm. and more in a day were recorded at many stations in the north and west. At Beddgelert on the 17th there was as much as 40mm., and on the 18th at Roche's Point the measurement was 45mm. Thunder and lightning occurred at Guernsey on the 17th, at Beddgelert on the 18th, and at Crieff on the 20th. Solar halos were observed in various parts of central England on the 17th, 19th and 20th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E. Shoeburyness.†		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	21	1·3	23	4·4	20	3·9	21	3·1	19	4·0	15	3·0	19	3·1	18	3·4
North	3	1·5	1	2·6	4	1·4	3	0·8	7	2·5	7	2·2	4	1·3	4	1·2
West	19	5·4	26	5·6	27	4·6	26	3·0	27	4·6	26	4·0	24	5·4	19	2·9
East	6	2·7	0	—	1	3·5	0	—	1	0·8	2	1·6	0	—	2	1·7
Calm	2	—	1	—	0	—	2	—	0	—	0	—	2	—	5	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Moderate	Unusual	Unusual	Unusual	Unusual	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Heavy	Moderate	Moderate	Moderate	Heavy	Light	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Sunshine ...	Very abundant	Very abundant	Moderate	Moderate	Moderate	Moderate	Abundant	Moderate	Moderate	Abundant	Abundant	Moderate

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SUMMER. 12 weeks from June 1st, 1919.	Warmth ...	1, 8, 3	2, 5, 5	6, 1, 5	4, 2, 6	5, 3, 4	3, 3, 6	3, 4, 5	4, 3, 5	4, 2, 6	4, 3, 5	4, 3, 5	3, 3, 6
	Rainfall ...	4, 2, 6	0, 6, 6	1, 3, 8	4, 3, 5	3, 4, 5	1, 4, 7	2, 3, 7	0, 4, 8	0, 6, 6	1, 5, 6	1, 6, 5	1, 6, 5
	Sunshine ...	3, 4, 5	6, 4, 2	3, 4, 5	4, 3, 5	4, 3, 5	4, 3, 5	6, 5, 1	3, 7, 2	5, 5, 2	6, 4, 2	8, 2, 2	2, 6, 4

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(24869—19.) Wt. 162—833/512. 625 8/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

['TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature				
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of R. in Days.	Rainfall in the Week.	Deviation from Normal.			Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average	Earth 4 ft Mean.	Earth 4 ft Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in	mm.	mm.		hr.	hr.	%		°F.	°F.	°F	°F	°F.
0. SCOTLAND, N.																							
a, Islands.. a Lerwick..	54	62	17th	46	23rd	58·3	49·3	53·5	+ 1·1	7	1·02	26	+ 10										
a Houton Bay, Orkney	520	58	18th	44	23rd	55·7	47·4	51·3	—	—	—	—	—	Houton Bay ..	—	—	—	•	•	•	•	•	•
a Stornoway	51	63	17th	49	22nd	59·0	52·4	55·5	+ 1·5	6	1·46	37	+ 15	Stornoway ..	7·2	+ 2·6	49	•	•	•	•	•	•
a Castlebay, Barra I. ..	37	60	17th	49	21st	57·4	52·3	54·7	—	7	0·72	18	—	Castlebay ..	6·6	—	45	•	•	•	•	•	•
b, Mainland. a Wick	81	66	17th	43	23rd	60·3	46·7	53·1	- 0·8	4	0·37	9	- 6										
a Strathpeffer	125	71	17th	45	20, 21, 23	62·4	47·6	54·6	- 0·9	5	0·69	17	+ 3										
p Glencarron	500	64	17th	45	21st	58·1	48·0	52·8	- 1·1	5	3·16	80	+ 4										
a Fort Augustus.. ..	68	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William ..	171	67	17th	46	21, 22	62·4	49·4	55·5	- 0·5	7	3·04	77	+ 43										
1. SCOTLAND, E.																							
a Nairn	82	73	17th	44	20, 22	64·4	47·3	55·3	- 0·3	6	0·48	12	- 2	Nairn	8·1	—	55	•	•	•	•	•	•
p Gordon Castle ..	101	71	17th	45	23rd	64·4	48·1	55·8	0·0	5	0·22	6	- 12	Gordon Castle..	7·6	—	52	•	•	•	•	•	•
a Aberdeen	46	71	17th	45	21, 23	65·7	49·4	57·1	+ 1·4	4	0·33	8	- 7	Aberdeen ..	8·0	+ 3·1	55	0	35	•	•	54·7	+0·5
a Balmoral	930	68	17th	37	20, 21, 23	61·7	41·3	50·9	- 2·0	5	0·38	10	- 7	Balmoral ..	•	•	•	0	32	•	•	•	•
p Crieff	432	70	17th	42	20, 21	64·1	46·0	54·5	- 2·1	6	0·81	21	- 2	Crathes	6·5	+ 2·2	45	2	29	58·1	+0·6	55·1	-0·5
a Dundee	244	72	17th	36	20th	66·3	44·6	54·8	- 1·8	5	0·39	10	- 8	Dundee	9·1	—	62	0	32	58·3	•	•	•
a Leith	30	74	17th	49	20, 21	66·1	51·3	58·3	+ 0·6	5	0·72	18	+ 3	Leith	•	•	•	0	41	•	•	•	•
p Edinburgh	441	73	17th	47	21st	65·0	51·0	57·6	+ 1·5	6	0·51	13	- 2	Edinburgh ..	8·0	+ 3·3	56	0	41	•	•	•	•
a West Linton	769	69	17th	44	21, 22	61·3	46·6	53·5	+ 0·3	4	0·94	24	—	West Linton ..	6·7	—	47	0	36	•	•	•	•
p Marchmont	498	73	17th	44	21st	66·7	48·7	57·2	+ 1·7	3	0·42	11	- 7	Marchmont ..	7·1	+ 2·4	49	•	•	•	•	•	•
6. a, SCOTLAND, W.																							
a Ford (Argyll)	149	67	17th	45	20th	62·8	49·5	55·8	—	5	2·55	65	—	Ford (Argyll) ..	•	•	•	0	39	59·7	—	56·5	—
p Glasgow Observatory	180	71	17th	48	20, 21	63·3	51·1	56·8	+ 0·5	6	0·91	23	0	Glasgow.. ..	7·4	+ 3·5	51	0	36	•	•	•	•
p Rothesay	200	65	17th	47	21, 22	61·7	49·3	55·4	- 1·3	5	1·36	35	+ 6	Rothesay ..	6·8	—	47	0	42	59·0	—	56·0	+0·1
a Kilmarnock	90	73	17th	47	20th	65·1	50·9	57·6	+ 2·2	4	1·24	31	+ 6	Kilmarnock ..	7·3	—	51	•	•	59·3	—	55·3	—
a Colmonell	170	70	17th	50	20th	64·6	52·1	57·9	+ 2·4	6	1·00	25	+ 1	Colmonell ..	•	•	•	0	46	•	•	•	•
p Cally, Gatehouse ..	120	69	17th	44	21st	65·1	50·6	57·4	+ 2·1	5	0·92	23	- 4	Dumfries ..	6·2	—	43	0	40	59·0	-0·9	56·5	-2·8
p Dumfries	160	68	17th	47	21st	64·1	51·3	57·3	+ 0·2	3	0·80	20	- 2	Eskdalemuir ..	4·7	—	33	0	38	•	•	•	•
a Eskdalemuir	794	66	17th	42	21st	62·0	47·0	54·1	—	5	1·85	47	—										
b, I. OF MAN p Douglas	277	66	17, 18	49	21st	63·6	52·9	57·9	+ 1·3	4	0·63	16	- 7	Douglas	5·5	0·0	38	0	47	•	•	•	•
2. ENGLAND, N.E.																							
a North .. a Alnwick Castle ..	210	75	17th	46	21st	68·6	51·7	59·6	+ 3·2	6	0·56	14	- 7										
a Tynemouth	118	76	17th	48	21st	68·1	54·6	61·0	+ 4·1	3	0·21	5	- 13	Cockle Park ..	6·3	+ 1·6	44	0	42	59·4	+3·0	56·9	+1·3
p Durham	336	72	17th	43	21st	67·9	50·9	58·9	+ 1·9	3	0·34	9	- 7	Durham ..	5·8	+ 1·4	40	0	39	•	•	•	•
p Rounton	249	75	17th	45	21st	67·4	50·9	58·7	+ 2·2	5	0·51	15	- 5	Rounton ..	•	•	•	0	35	60·4	•	•	•
a West Witton ..	605	73	17th	44	21st	65·4	51·0	57·8	—	6	0·82	21	—	West Witton ..	•	•	•	0	40	59·6	—	54·3	—
p Scarborough ..	100	78	17th	48	21st	68·4	53·6	60·8	+ 2·3	4	0·53	13	- 5	Scarborough† ..	4·9	0·0	34	•	•	•	•	56·6	—
p York	56	78	17th	50	21st	66·6	54·1	60·5	+ 1·8	6	0·48	12	- 4	York	4·4	- 0·1	31	—	—	61·3	+1·8	58·0	+0·4
b, South .. a Spurn Head	26	77	17th	52	22nd	65·7	54·9	60·0	+ 0·9	5	1·15	29	+ 15	Spurn Head ..	•	•	•	•	•	•	•	•	•
a Lincoln	58	74	17th	50	21, 22	68·9	53·0	60·5	+ 1·2	4	0·97	25	+ 9	Lincoln	•	•	•	0	47	61·9	+1·5	58·8	+0·6
a Fulbeck	180	81	17th	47	22nd	69·1	53·6	60·9	+ 1·7	5	1·24	31	+ 14	Fulbeck* ..	4·9	- 0·6	34	•	•	—	—	—	—
														Skegness ..	4·5	- 1·2	32	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	73	18th	46	22nd	68·7	53·9	60·9	+ 1·3	4	0·82	21	+ 8	Cromer	4·2	- 1·4	30	•	•	•	•	•	•
a Little Massingham ..	280	80	17th	46	22nd	68·6	52·6	60·1	+ 0·9	4	1·23	31	+ 13	Lit. Massingham	4·6	- 0·7	33	•	•	•	•	•	•
a Yarmouth	13	76	18th	48	22nd	70·3	55·9	62·7	+ 3·0	4	0·51	13	- 3	Yarmouth ..	6·4	—	45	0	47	63·3	+0·1	60·0	-1·3
a Norwich	93	80	17th	45	22nd	70·7	55·7	62·8	+ 3·0	4	0·77	20	+ 4	Norwich ..	5·7	—	40	0	41	63·1	•	•	•
a Geldeston	37	81	17th	42	22nd	72·6	54·1	62·8	+ 3·2	4	0·46	12	- 2	Geldeston ..	5·7	+ 0·1	40	•	•	•	•	•	•
p Cambridge	41	82	17th	50	21, 22	72·4	55·1	63·2	+ 3·1	4	0·62	16	+ 1	Cambridge ..	5·8	+ 0·2	41	0	40	64·9	+2·9	60·4	+0·1
a Clacton-on-Sea ..	54	76	18th	48	22nd	72·3	58·0	64·7	+ 4·2	2	0·17	4	- 8	Clacton	6·1	- 0·3	43	0	44	64·3	+2·9	60·9	+0·6
a Rothamsted	424	78	17th	45	22nd	69·9	54·9	62·0	+ 3·1	4	0·87	22	+ 6	Rothamsted ..	5·8	+ 0·3	41	0	40	63·1	•	•	•
p Tottenham	51	82	17th	49	22nd	73·4	58·4	65·5	—	2	0·43	11	—	Tottenham ..	6·1	—	43	0	46	•	•	63·9	+2·1
														S'thend-on-Sea	6·0	—	43	0	49	68·1	+2·2	—	—
4. MIDLAND COUNTIES.																							
a North .. a Barrogate	479	74	17th	47	21st	66·1	52·3	58·8	+ 1·9	5	0·43	11	- 7	Harrogate	5·3	+ 0·3	37	0	39	58·3	+1·2	56·9	+0·6
p Sheffield	427	77	17th	51	21st	66·7	54·1	60·0	—	5	0·95	24	—	Sheffield.. ..	4·3	- 0·5	30	0	42	60·7	+2·1	56·3	+0·2
p Buxton	987	73	17th	48	21, 22	63·6	51·3	57·1	—	5	1·30	33	+ 4	Buxton	4·4	—	31	0	46	61·1	+2·9	56·7	+1·1
b, East .. a Bawtry	65	74	17th	46	22nd	67·0	52·3	59·2	+ 0·4	4	0·75	19	+ 4	Worksop	3·9	- 0·6	27	0	37	60·9	—	57·6	—
a Nottingham	82	78	17th	48	22nd	68·9	53·9	61·0	+ 2·1	4	1·15	29	+ 13	Nottingham ..	4·8	- 0·3	34	0	42	61·3	+1·6	60·0	+0·8
p Birmingham, Edgbsn.	535	75	17th	50	22nd	68·3	54·1	60·8	+ 2·1	4	0·80	20	+ 3	Birmingham ..	4·4	0·0	31	0	37	59·1	+2·5	54·8	+1·0
a Raunds	203	81	17th	49	21, 22	71·7	54·1	62·4	+ 2·6	4	0·86	22	+ 5	Raunds	5·6	—	40	0	40	63·6	—	57·1	—
p Oxford	208	80	17th	49	22nd	70·7	56·1	63·0	+ 3·0	5	1·00	25	+ 10	Oxford	4·7	- 1·0	33	0	42	•	•	•	•
														Malvern ..	4·8	—	34	0	44	64·0	—	62·0	—
c, West .. a Cheadle (N. Staffs.) ..	646	77	17th	46	21st	69·1	52·0	60·0	+ 2·8	7	1·07	27	+ 5	Cheadle	•	•	•	0	44	•	•	•	•
p Tenbury	313	76	17th	46	21st	70·4	52·0	60·7	+ 2·6	5	0·87	22	+ 4	Tenbury	•	•	•	0	41	63·1	—	—	—
p Ross-on-Wye ..	201	78	17th	48	22nd	71·9	54·9	62·9	+ 3·6	4	0·65	16	0	Ross-on-Wye ..	4·9	—	35	0	44	—	—	—	—
a Clifton	229	76	17th	53	21st	69·4	57·9	63·3	+ 2·2	3	1·07	27	- 1	Clifton	5·5	—	39	0	50	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	79	18th	41	22nd	70·6	52·7	61·1	+ 3·4	3	0·70	18	+ 1	Worthing	5·6	- 1·1	40	0	44	65·4	+2·2	60·9	-0·1
p Salisbury (Wilton) ..	180	79	17, 18	44	22nd	71·7	54·4	62·5	+ 2·9	2	0·32	8	- 9	Marlborough ..	24·3	- 1·0	30	0	36	61·8	—	57·7	—
a Wisley, Surrey ..	150	83	17th	45	22nd	73·0	56·3	64·2	+ 4·4	3	0·50	13	- 1	Salisbury	•	•	•	0	39	65·5	•	•	•
a Tunbridge Wells ..	354	80	17th	44	22nd	71·4	56·0	63·2	+ 3·4	3	0·28	7	- 8	Wisley	5·7	- 0·2	41	0	33	63·7	+1·9	59·4	-0·8
a Margate	51	76	17, 18	51	22nd	72·6	59·3	65·6	+ 4·2	1	0·07	2	- 11	Tunbridge Wells	5·6	- 0·6	40	0	41	63·6	+0·4	59·9	—
														Margate	6·2	+ 0·3	44	0	45	68·9	+0·6	64·1	+3·8
a Dungeness	21	74	17th	45	22nd	68·9	56·0	62·1	+ 1·3	2	0·12	3	- 10	Folkestone ..	6·1	—	44	•	•	•	•	56·2	—
p St. Leonards	178	77	17th	50	22nd	69·3	57·1	62·8	+ 2·0	2	0·21	5	- 10	St. Leonards ..	6·1	- 0·4	44	0	46	66·1	—	61·1	—
p Southampton	64	78	17th	47	22nd	70·4	56·3	62·9	+ 1·4	3	0·37	10	- 7	Southampton ..	4·2	- 2·1	30	0	36	•	•	•	•
a Ventnor	59	72	17th	55	22nd	68·1	59·0	63·3	+ 1·6	3	0·43	11	- 3	Ventnor	4·6	- 1·8	33	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	79	17th	48	22nd	72·3	57·8	64·6	+ 4·1	3	0·29	7	- 7	Richmond	5·4	- 0·3	38	0	37	61·8	+3·3	58·8	-0·2
a Westminster	27	82	17th	49	22nd	73·7	58·9	65·9	+ 4·4	2	0·26	7	- 7	Westminster ..	5·7	+ 0·6	40	0	44	•	•	•	•
ag Greenwich	149	85	17th	47	22nd	75·3	57·6	65·9	+ 4·8	3	0·39	10	- 2	Greenwich ..	5·9	- 0·6	42	0	34	•	•	•	•
a Hampstead	450	79	17th	48	22nd	70·6	56·0	62·9	—	4	0·54	14	—	Hampstead ..	5·3	—	38	0	42	•	•	•	•
ag Camden Square ..	110	84	17th	48	22nd	74·7	57·7	65·7	+ 3·7	3	0·34	9	- 5	Camden Square	4·9	0·0	35	0	44	•	•	•	•
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	68	17th	48	21st	62·0	52·0	56·7	- 0·4	6	0·86	22	- 6	Aspatria.. ..	4·8	- 0·1	33	0	47	58·6	-0·5	55·9	+0·1
p Newton Rigg	558	70	17th	47	23rd	64·4	51·6	57·6	+ 1·5	5	0·75	19	- 4	Newton Rigg ..	5·6	+ 0·8	39	0	39	60·3	+1·4	57·0	+0·6
p Stonyhurst	375	72	17th	53	23rd	64·1	54·6	59·1	+ 1·9	6	1·15	29	- 4	Stonyhurst ..	4·8	+ 0·1	34	0	45	•	•	•	•
p Blackpool	66	72	17th	53	19th	66·1	56·7	61·1	+ 2·9	7	1·30	33	+ 9	Blackpool ..	4·9	- 0·7	34	0	49	60·8	—	56·0	—
a Southport	37	73	17th	52	19th	65·1	56·0	60·3	+ 1·9	6	1·00	26	+ 3	Southport ..	5·1	- 0·3	36	0	50	64·4	+2·5	61·3	+0·4
														Hoylake ..	5·5	+ 0·3	38	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	75	17th	52	19, 20	65·6	55·3	60·1	+ 1·2	6	1·18	30	+ 10	Liverpool ..	5·5	—	38	0	48	•	•	•	•
a Hawarden Bridge ..	22	77	17th	52	21st	67·7	55·4	61·2	+ 1·6	6	1·03	26	+ 8	Manchester(City)	4·4	+ 0·6	31	0	45	62·2	+2·1	60·6	+0·7
p Manchester (Whit. Pk.)	126	77	17th	50	21st	68·1	54·1	60·7	+ 1·4	6	1·20	31	+ 9	Whitworth Park	4·6	+ 0·6	32	•	•	•	•	•	•
b NORTH WALES.																							
p Llandudno	16	72	17th	54	19, 21	66·6	56·6	61·3	+ 1·9	4	0·97	25	+ 5	Llandudno ..	4·5	- 1·0	31	•	•	•	•	•	•
a Holyhead	15	67	23rd	52	18, 21	64·9	54·1	59·2	+ 0·8	2	0·67	17	- 4	Holyhead ..	5·6	—	39	0	49	•	•	•	•
a Beddgelert	309	67	17th	52	21st	63·4	54·3	58·6	—	5	2·89	73	—	Aberdovey ..	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average	Earth 4 ft. Mean.	Deviation from average
8. *a*, SOUTH WALES.	Ft.	°F.		°F.		°F.	°F.	°F	°F.		in.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
a Aberystwyth	59	71	17th	54	19th	64·9	56·9	60·7	—	3	0·77	20	—	Aberystwyth ..	4·7	− 0·8	33	•	•	•	•	•	•
a Rhayader	767	72	17th	48	21st	65·6	54·0	59·5	—	4	0·83	21	—	Rhayader ..	5·2	—	37	0	41	•	•	•	•
a St. Ann's Head ..	149	67	17th	56	21st	64·1	58·0	60·9	+ 2·1	5	0·56	14	− 7	St. Ann's Head	6·2	+ 0·2	44	•	•	•	•	•	•
p Cardiff	202	75	17th	50	21st	68·1	55·3	61·3	+ 1·7	4	0·91	23	− 4	Cardiff	5·6	—	40	0	45	64·1	+2·7	60·4	+1·0
b, ENGLAND, S.W.																							
a Bath	66	79	17th	47	22nd	71·9	55·9	63·4	+ 3·6	3	0·92	23	+ 5	Bath	•	•	•	•	•	65·8	+2·6	62·3	+0·6
a Shaftesbury	722	74	17th	49	22nd	66·9	55·0	60·6	+ 1·8	3	0·46	12	− 7	Shaftesbury ..	•	•	•	•	•	64·3	•	61·0	—
a Arlington	613	73	17th	49	21st	66·7	55·4	60·7	+ 2·8	5	1·77	45	+ 12										
a Newquay	190	74	17th	54	22nd	68·9	59·0	63·7	+ 3·8	5	0·80	20	+ 2	Newquay ..	6·0	− 0·3	43	0	52	65·8	—	60·7	—
a Cullompton	202	80	17th	47	22nd	73·3	55·9	64·1	+ 4·7	5	0·63	16	− 3	Cullompton ..	4·9	− 0·7	35	0	40	65·3	•	•	•
a Portland Bill	19	65	17th	56	22nd	63·9	59·1	61·4	+ 0·8	4	0·40	10	− 4	Weymouth ..	5·4	—	39	•	•	•	•	•	•
p Plymouth	116	72	22nd	53	22nd	68·6	58·6	63·3	+ 3·0	4	0·57	14	− 5	Plymouth ..	5·6	− 0·6	40	0	50	66·1	+3·2	61·7	—
a Falmouth	167	73	17th	54	21st	70·0	58·4	63·9	+ 4·1	5	1·25	32	+ 10	Falmouth ..	4·8	− 1·8	34	0	48	65·7	—	64·2	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	67	17th	50	21st	60·0	53·1	56·3	− 0·2	5	1·02	26	+ 5	Malin Head ..	5·7	—	40	•	•	•	•	•	•
a Blacksod Point ..	37	66	17th	50	21st	63·1	54·4	58·5	+ 1·2	6	1·02	26	+ 5	Markree Castle	5·0	+ 0·9	35	0	41	62·5	+2·4	58·2	+1·0
p Markree Castle ..	122	70	17, 21	47	20th	66·3	51·7	58·6	+ 2·6	4	0·80	20	− 6										
b, East .. { *p* Armagh	198	74	17th	46	21st	67·0	51·7	58·9	+ 2·3	5	0·86	22	+ 1	Armagh	5 5	+ 1·3	38	0	44	61·1	+1·0	58·1	+0·1
a Donaghadee	39	72	17th	44	21st	66·0	50·3	57·7	+ 0·8	5	0·53	13	− 7										
10. IRELAND, S.																							
p Dublin, City	47	74	17th	49	21st	67·7	55·0	61·0	+ 2·1	4	0·56	14	− 6	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
a Birr Castle	175	—	—	—	—	—	—	—	—	—	—	—	—	Phœnix Park ..	5·7	+ 0·6	40	0	32	•	•	•	•
a Kilkenny	195	74	17th	44	21st	68·3	51·1	59·2	+ 1·4	3	0·62	16	− 7	Dublin City ..	•	•	•	0	45	•	•	•	•
a Waterford	137	71	17, 18, 22	45	21st	68·7	52·7	60·2	+ 1·5	2	1·34	34	+ 9	Birr Castle ..	—	—	—	—	—	•	•	•	•
p Seskin, Carrick-on-Suir	535	70	17, 22	46	21st	68·4	52·0	59·7	—	4	0·72	18	—	Seskin	4·8	—	34	0	41	•	•	•	•
a Cahir	198	73	17th	44	21st	68·9	50·9	59·4	+ 1·4	3	0·74	19	—										
a Foynes	50	72	17th	50	19, 21	68·0	53·9	60·5	+ 2·4	6	0·59	15	− 10										
a Cahirciveen (Val. Obs.)	30	69	17th	53	21, 22	65·3	56·6	60·7	+ 2·1	4	1·02	26	− 7	Cahirciveen ..	6·0	+ 1·1	43	0	47	•	•	•	•
a Killarney	174	76	19th	47	21st	70·0	55·6	62·4	+ 3·8	4	0·94	24	− 6	Ballinacurra ..	—	—	—	•	•	•	•	•	•
a Roche's Point	32	69	22nd	50	21st	66·0	54·7	60·0	+ 1·3	4	2·10	53	+ 28										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	71	17th	54	22nd	68·3	58·9	63·3	+ 2·7	5	0·73	19	+ 3	Scilly	5·9	− 0·9	42	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	76	18th	50	22nd	71·3	58·6	64·6	+ 2·0	2	0·47	12	− 3	St. Heliers ..	7·0	− 0·4	50	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	74	18th	56	22nd	70·4	59·6	64·7	+ 2·5	3	0·42	11	− 5	Guernsey† ..	7·3	− 0·2	52	0	46	65·4	+1·6	62·1	−0·1

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, August 23rd, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	17 to 19, 21	17	68	76	7	0	236	13	18	13	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	12	116	40	0	270	7	18	15	18	18	0	45
Aberdeen	153	105	52	—	—	—	—	58	102	8	0	315	10	22	17	19	18	13	35
Edinburgh	486	39	31	18	1	17, 18	13	105	42	7	0	191	18	18	2	30	18	1	30
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	17, 18	2	17, 18, 22	18	67	57	24	0	191	18	18	2	25	18	0	35
Paisley	188	81	15	—	—	17, 18	3	38	112	15	0	191	13	17	24	24	17	23	55
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	1	104	53	19	203	6	18	3	14	18	3	0
South Shields	72	61	12	—	—	22	3	57	97	11	0	281	12	22	13	19	22	11	35
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	19	1	43	110	14	0	—	11	19	10	17	19	12	10
Shoeburyness	103	90	‡	—	—	18 to 20	15	54	98	1	0	225	13	20	11	20	19	14	0
4. MIDLAND COUNTIES																			
Benson	270	84	‡	—	—	19	1	34	106	27	0	225	11	19	11	18	19	10	45
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	73	85	10	0	—	10	20	13	18	20	12	45
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument out of adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	18, 19, 22	20	79	60	9	0	225	15	19	9	19	19	8	50
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	50	102	16	0	225	10	18	10	18	19	11	10
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	12	88	68	0	203	8	22	13	13	22	12	20
Fleetwood (Cup Anr.) ..	109	44	—	—	—	21 to 23	12	94	61	1	0	225	14	22	10	—	—	—	—
Southport	80	62	48	—	—	17, 18, 20 to 23	34	80	52	2	0	247	16	22	14	21	22	14	10
Holyhead	60	40	‡	—	—	17, 18	5	81	77	5	0	203	13	18	3	19	18	2	20
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	17 to 19, 22	38	41	54	17	18	270	17	19	9	21	19	8	45
Plymouth	185	88	2	—	—	19, 20	12	76	67	13	0	—	13	19	11	18	19	10	45
Lyme Regis (Rousdon)	600	65	30*	—	—	—	—	7	65	96	0	—	7	20	9	13	20	9	20
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	15, 20 to 22	14	76	67	11	0	225	13	22	7	—	—	—	—
Quilty	100	40	‡‡‡	—	—	17	13	98	47	10	0	—	14	17	18	19	18	0	30
Cahirciveen (Val. Obs.)	98	41	‡‡‡	—	—	17	10	27	100	21	10	200	14	17	22	22	17	22	0
Weaver Pt.	160	30	‡	—	—	17	8	51	96	7	6	—	14	17	23	24	18	?	?
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	39	78	34	17	225	10	19	8	14	19	8	15

† More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting.
§ Direction from the Robinson Anemometer at Falmouth Observatory.
* Above tops of trees.
** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

THIRTY-FOURTH WEEK of 1919—August 17th to August 23rd, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	71	43	88·6	82·4	85·3	− 0·1	85	− 2	0	0	6	+ 1	1·62	41	+ 18	7·2	+2·6	49	1008
Eastern.																			
1. SCOTLAND, EAST ...	71	37	90·9	81·5	85·9	− 0·2	93	− 2	0	0	5	+ 1	0·54	14	− 3	7·8	+3·2	53	1010
2. ENGLAND, N.E.	81	43	93·0	84·7	88·6	+ 1·3	127	+ 16	0	0	5	+ 1	0·67	17	0	5·1	+0·2	36	1014
3. ENGLAND, EAST ...	82	42	94·7	86·0	90·1	+ 1·7	145	+ 21	0	0	4	0	0·65	17	+ 3	5·6	0·0	40	1017
4. MIDLAND COUNTIES ...	81	46	93·8	85·2	89·2	+ 1·4	134	+ 18	0	0	5	+ 1	0·87	22	+ 5	4·7	−0·5	34	1017
5. ENGLAND, S.E.	83	41	94·6	86·6	90·3	+ 1·5	148	+ 17	0	0	3	− 1	0·33	8	− 7	5·4	−0·8	38	1019
Western.																			
6. SCOTLAND, WEST ...	73	44	90·7	83·6	86·9	+ 0·4	105	+ 4	0	0	5	0	1·18	30	+ 4	6·5	+1·6	45	1013
7. ENGLAND, N.W.	77	47	91·6	85·5	88·3	+ 0·8	123	+ 10	0	0	5	+ 1	1·00	25	+ 1	5·0	0·0	35	1016
8. ENGLAND, S.W.	80	47	92·9	86·7	89·6	+ 1·5	139	+ 18	0	0	4	0	0·83	21	− 1	5·3	−0·5	38	1019
9. IRELAND, NORTH ...	74	44	91·1	84·2	87·4	+ 0·7	112	+ 9	0	0	5	0	0·85	21	− 2	5·3	+1·1	37	1013
10. IRELAND, SOUTH ...	76	44	92·9	85·1	88·8	+ 1·2	129	+ 15	0	0	4	− 1	1·00	25	0	5·9	+1·0	41	1018
11. ENGLISH CHANNEL ...	76	50	94·1	88·0	90·9	+ 1·5	155	+ 18	0	0	3	− 1	0·54	14	− 2	6·7	−0·5	48	1021

THE SEASON (Summer).—Aggregates, &c., for the Period of 12 Weeks, June 1st to August 23rd, 1919.

0. SCOTLAND, NORTH ...	75	38	88·2	81·9	84·8	− 0·5	949	− 72	0	− 1	49	− 3	8·49	217	− 13	4·2	−0·2	25	1015
Eastern.																			
1. SCOTLAND, EAST ...	78	29	90·5	81·5	85·7	− 0·4	1086	− 51	0	0	37	− 8	3·75	97	− 90	6·1	+0·8	37	1016
2. ENGLAND, N.E.	84	38	91·8	83·0	87·1	− 0·1	1290	− 10	0	0	38	− 2	4·15	105	− 60	5·6	−0·2	35	1017
3. ENGLAND, EAST ...	86	32	92·5	83·3	87·6	− 0·6	1365	− 95	0	0	31	− 7	4·63	119	− 30	6·2	−0·3	39	1018
4. MIDLAND COUNTIES ...	86	35	92·7	83·1	87·8	− 0·1	1399	− 7	0	0	31	− 7	4·82	122	− 42	5·9	+0·1	37	1019
5. ENGLAND, S.E.	86	35	93·0	83·8	88·1	− 0·5	1440	− 80	0	0	27	− 9	3·36	84	− 59	6·5	−0·4	42	1019
Western.																			
6. SCOTLAND, WEST ...	77	34	90·3	82·4	86·1	− 0·5	1144	− 77	0	0	42	− 5	7·96	202	− 40	6·7	+1·0	41	1017
7. ENGLAND, N.W.	83	36	90·8	83·6	87·0	− 0·4	1273	− 60	0	0	33	−10	4·44	112	− 96	5·9	0·0	37	1019
8. ENGLAND, S.W.	85	35	92·1	83·8	87·7	− 0·2	1383	− 26	0	0	28	−14	3·97	99	− 99	7·2	+0·8	46	1021
9. IRELAND, NORTH ...	78	36	89·9	83·0	86·2	− 0·4	1163	− 61	0	0	43	−10	6·34	160	− 63	5·2	+0·3	32	1018
10. IRELAND, SOUTH ...	80	36	91·8	83·8	87·5	− 0·1	1357	− 4	0	0	36	−10	4·97	125	− 96	5·8	+0·4	37	1021
11. ENGLISH CHANNEL ...	85	46	91·8	85·4	88·4	− 0·3	1483	− 53	0	0	23	−17	3·21	81	− 69	7·7	−0·1	50	1022

THE YEAR 1919.—Aggregates, &c., for the Period of 34 Weeks, December 29th, 1918, to August 23rd, 1919.

0. SCOTLAND, NORTH ...	78	11	83·3	77·1	80·1	− 0·6	1340	−123	680	+ 141	141	−15	24·12	615	−145	3·8	+0·2	28	1012
Eastern.																			
1. SCOTLAND, EAST ...	78	5	84·2	76·5	80·2	− 0·8	1509	−142	787	+ 170	118	−15	15·09	388	− 92	4·3	+0·1	32	1012
2. ENGLAND, N.E.	84	11	85·2	77·9	81·4	− 0·4	1802	− 71	578	+ 106	122	+ 2	15·04	382	− 5	4·3	−0·3	32	1013
3. ENGLAND, EAST ...	86	10	85·9	78·1	81·8	− 0·6	1968	−190	580	+ 86	113	− 3	15·41	395	+ 30	4·6	−0·4	35	1014
4. MIDLAND COUNTIES ...	86	9	86·0	77·9	81·8	− 0·5	2018	−110	628	+ 106	110	− 5	18·11	460	+ 48	4·3	−0·2	33	1014
5. ENGLAND, S.E.	86	16	86·4	78·8	82·4	− 0·6	2147	−141	451	+ 72	110	− 2	17·22	435	+ 43	4·7	−0·5	36	1014
Western.																			
6. SCOTLAND, WEST ...	83	14	84·9	77·9	81·2	− 0·6	1672	−139	539	+ 123	128	−13	22·77	578	−121	4·7	+0·3	35	1013
7. ENGLAND, N.W.	83	16	85·1	78·6	81·7	− 0·5	1835	−123	494	+ 112	116	−10	17·37	442	− 85	4·4	−0·2	33	1014
8. ENGLAND, S.W.	85	15	85·9	79·0	82·3	− 0·5	2029	−128	409	+ 108	117	− 8	22·27	566	+ 4	5·1	+0·1	39	1015
9. IRELAND, NORTH ...	78	22	85·1	78·5	81·6	− 0·5	1743	−134	437	+ 97	143	−11	19·51	491	− 97	4·2	+0·1	32	1013
10. IRELAND, SOUTH ...	80	22	86·2	79·2	82·6	− 0·4	2058	−115	362	+ 102	135	− 1	19·88	506	−111	4·5	0·0	34	1015
11. ENGLISH CHANNEL ...	85	26	86·5	81·0	83·7	− 0·3	2314	−145	137	+ 32	120	− 9	23·20	587	+132	5·5	−0·4	42	1016
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	h.m

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: August 29th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN

FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 35.

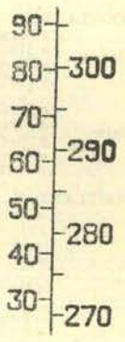
THE THIRTY-FIFTH WEEK OF 1919.

SUNDAY, AUGUST 24TH, TO SATURDAY, AUGUST 30TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

Low pressure systems continued to pass across our Islands in an easterly direction during the week, and an unsettled type of weather was maintained throughout. The winds, which varied a good deal in direction, were strong from the westward over England on Wednesday, reaching gale force over the Irish Sea. Mean temperature was below the normal in all Districts, the deficit being more than 2 a. in the North and about 1 a. in the South. The highest maxima occurred generally on the 26th, when readings of 294 a. were observed at some stations in the southern Districts, but in many parts of Scotland and northern England the highest of the maxima were below 289 a., and on some days did not exceed 282 a. Minimum readings of 274 a. in the screen and 271 a. on the grass were registered over eastern Scotland on the morning of the 25th. Rainfall exceeded the normal in all Districts, the largest divergence being in England S.E., with an excess of 34mm. In the North the largest daily falls were generally on the 25th, and in the southern Districts on the 27th. Amounts of 20mm. or more in a day occurred in nearly all parts of the United Kingdom. At Houton Bay (Orkney) 73mm. fell on the 26th and 25mm. on the 27th, while at Beddgelert the total for the four days, 25th—28th, was 123mm. In Scotland N. and Scotland E. the amount of bright sunshine was 0·5 hr. per day more than the normal, but elsewhere there was a deficiency; in England E. and England S.W. the deficit was nearly two hours per day. Slight thunderstorms occurred over the south of England on the 25th and 29th and over eastern England on the 26th. Solar halos were observed at Houton Bay, Aberdeen, Oxford, Tenbury and Ross-on-Wye on different days, while a sun pillar was seen at Seskin on the 25th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E. Shoeburyness.†		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	3	4·1	10	2·6	20	5·2	16	3·5	8	3·3	11	2·7	12	3·9	9	2·9
North	22	5·4	7	2·6	3	2·5	4	1·6	17	5·9	14	5·4	7	4·1	16	4·5
West	17	4·6	17	5·9	18	6·2	17	3·6	17	6·4	20	6·6	15	8·5	17	4·7
East	5	10·3	5	2·5	5	3·2	2	3·6	9	4·9	7	3·7	8	3·9	7	3·2
Calm	1	—	6	—	3	—	5	—	2	—	0	—	4	—	2	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Very deficient	Very deficient	Deficient	Deficient	Deficient	Moderate	Very deficient	Very deficient	Moderate	Very deficient	Deficient	Moderate
	Rainfall ...	Heavy	Heavy	Very heavy	Very heavy	Very heavy	Very heavy	Moderate	Very heavy	Very heavy	Heavy	Heavy	Very heavy
	Sunshine ...	Abundant	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate	Scanty	Scanty	Scanty	Scanty	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

SUMMER. 13 weeks from June 1st, 1919.	Warmth ...	1, 8, 4	2, 5, 6	6, 1, 6	4, 2, 7	5, 3, 5	3, 4, 6	3, 4, 6	4, 3, 6	4, 3, 6	4. 3, 6	4, 3, 6	3, 4, 6
	Rainfall ...	5, 2, 6	1, 6, 6	2, 3, 8	5, 3, 5	4, 4. 5	2, 4, 7	2, 4, 7	1, 4, 8	1, 6, 6	2, 5. 6	2, 6, 5	2, 6, 5
	Sunshine ...	4, 4, 5	6, 4, 3	3, 4, 6	4, 3, 6	4, 3, 6	4, 3, 6	6, 6, 1	3, 7. 3	5, 5, 3	6, 4, 3	8, 2, 3	2, 6, 5

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{9}{5}$° F.; 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(24968—19.) Wt. 162—833/512. 625. 9/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.				
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F	°F.
0. SCOTLAND, N.	54	57	29th	46	25, 26, 28	53·4	47·0	50·0	- 1·2	5	1·93	49	+ 25										
a, Islands.. a Lerwick	520	52	24–26	43	26–28	51·0	44·0	47·3	—	7	4·57	116	+ 93	Houton Bay ..	4·0	+ 0·5	28	0	38	•	•	•	•
a Houton Bay, Orkney	31	57	24, 25	47	27–29	53·4	47·6	50·3	- 2·4	6	2·13	54	+ 22	Stornoway ..	3·7	- 0·1	26	•	•	•	•	•	•
a Stornoway	87	56	24th	45	28th	54·0	48·1	50·9	—	7	0·89	23	—	Castlebay ..	5·8	—	41						
a Castlebay, Barra I. ..																							
b, Mainland. a Wick	81	55	29th	36	25th	53·3	44·0	48·4	- 4·2	7	2·46	62	+ 41										
a Strathpeffer	125	59	24th	34	25th	55·0	42·4	48·3	- 5·6	4	1·30	33	+ 14										
p Glencarron	600	54	24, 25	39	25th	51·4	42·6	46·7	- 5·8	7	2·78	71	+ 13										
a Fort Augustus.. ..	68	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William	171	63	24th	37	28th	57·0	43·9	50·1	- 4·4	5	0·70	18	- 32										
1. SCOTLAND, E.																							
a Nairn	82	60	25th	34	25th	56·3	42·7	49·1	- 4·9	7	1·20	31	+ 13	Nairn	2·6	—	18	•	•	•	•	•	•
p Gordon Castle	101	59	24, 26	37	25th	56·9	44·0	50·1	- 4·2	5	1·73	44	+ 22	Gordon Castle..	3·5	—	25	•	•	•	•	•	•
a Aberdeen	46	61	29th	37	25th	57·1	44·6	50·5	- 3·7	4	0·94	24	+ 5	Aberdeen ..	3·4	- 1·1	24	0	34	•	•	54·1	+0·2
a Balmoral	930	58	28th	29	25th	55·7	42·0	48·4	- 2·8	2	0·90	23	+ 2	Balmoral ..	•	•	•	2	28	•	•	•	•
p Crieff	432	61	24th	36	28th	58·1	43·7	50·5	- 4·5	3	1·34	34	+ 7	Crathes	2·9	- 1·2	21	1	28	53·9	- 2·6	54·5	- 0·9
a Dundee	244	63	29th	36	24th	59·1	42·9	50·5	- 4·4	4	1·37	35	+ 14	Dundee	3·8	—	27	1	30	55·7	•	•	•
a Leith	30	64	26th	44	29th	58·7	46·9	52·5	- 3·6	4	0·95	24	+ 6	Leith	•	•	•	0	35	•	•	•	•
p Edinburgh	441	61	24, 26	41	28th	57·0	45·6	51·0	- 3·6	3	0·73	19	+ 1	Edinburgh ..	4·3	- 0·1	31	0	34	•	•	•	•
a West Linton	769	56	24, 29	34	28th	54·1	40·0	46·6	- 4·9	4	0·93	24	—	West Linton ..	3·2	—	23	1	29	•	•	•	•
p Marchmont	498	61	26th	40	28th	57·6	44·0	50·4	- 3·5	3	1·38	35	+ 13	Marchmont ..	3·3	- 1·0	24	•	•	•	•	•	•
6. a, SCOTLAND, W.																							
a Ford (Argyll)	149	61	24th	35	28th	57·0	42·8	49·5	—	7	0·96	24	—	Ford (Argyll) ..	•	•	•	2	28	57·4	—	56·3	—
p Glasgow Observatory	180	63	24th	41	28th	56·7	46·1	51·1	- 3·6	4	1·07	27	+ 1	Glasgow.. ..	4·7	+ 1·1	34	2	28	•	•	•	•
p Rothesay	200	60	24th	42	28th	55·7	45·7	50·4	- 4·6	6	1·40	36	+ 2	Rothesay ..	4·4	—	31	0	34	55·9	—	55·6	0·0
a Kilmarnock	90	64	24th	39	24, 28	58·4	44·1	50·8	- 3·1	5	0·93	24	- 5	Kilmarnock ..	4·4	—	31	•	•	54·6	—	54·8	—
a Colmonell	170	64	24th	41	24, 28	58·3	45·3	51·4	- 2·9	5	0·72	18	- 11	Colmonell ..	•	•	•	0	38	•	•	•	•
p Cally, Gatehouse ..	120	64	24th	37	28th	57·1	43·7	50·0	- 3·8	4	1·95	50	+ 18	Dumfries ..	3·8	—	27	0	32	54·7	- 3·9	55·7	- 3·1
p Dumfries	160	62	24th	39	28th	57·6	44·3	50·6	- 2·9	5	1·52	39	+ 15	Eskdalemuir ..	3·1	—	22	2	29	•	•	•	•
a Eskdalemuir	794	60	24th	32	28th	55·4	39·4	46·9	—	4	1·62	41	—										
b, I. OF MAN p Douglas	277	61	24th	42	28th	57·3	46·4	51·5	- 3·8	6	2·03	52	+ 24	Douglas	4·8	- 0·3	35	0	37	•	•	•	•
2. ENGLAND, N.E.																							
a Alnwick Castle ..	310	—	—	—	—	—	—	—	—	—	—	—	—										
a Tynemouth	118	67	26th	42	28th	58·9	47·0	52·6	- 3·6	4	1·34	34	+ 18	Cockle Park ..	3·5	- 1·2	25	1	30	53·2	- 1·6	55·5	+ 0·5
a North .. p Durham	336	64	24, 26	39	28th	58·3	45·6	51·6	- 4·5	3	1·61	41	+ 26	Durham ..	3·9	- 0·5	28	1	30	•	•	•	•
p Rounton	249	65	26th	39	28th	58·3	43·4	50·4	- 5·3	4	1·82	46	+ 30	Rounton ..	•	•	•	1	29	56·2	•	•	•
a West Witton	605	65	24, 26	39	28th	60·1	45·0	52·1	—	4	1·64	42	—	West Witton ..	•	•	•	0	37	55·2	—	54·4	—
p Scarborough	100	67	26th	43	28th	60·4	47·7	53·7	- 3·9	5	1·59	40	+ 24	Scarborough† ..	3·3	- 1·6	24	•	•	•	•	57·0	—
p York	56	65	24, 26	42	28th	59·0	48·1	53·2	- 4·6	4	1·35	34	+ 20	York	2·9	- 1·6	21	—	—	58·1	- 0·6	57·7	+ 0·3
b, South .. a Spurn Head	26	70	26th	47	30th	60·3	50·6	55·2	- 3·2	4	1·70	43	+ 31	Spurn Head ..	•	•	•	•	•	•	•	•	•
a Lincoln	58	70	26th	42	28th	63·6	47·6	55·1	- 3·3	5	1·37	35	+ 21	Lincoln	•	•	•	0	41	58·1	- 1·2	58·5	+ 0·6
a Fulbeck	180	70	26th	42	28th	62·4	47·9	54·7	- 3·7	6	1·70	43	+ 28	Fulbeck* ..	3·8	- 1·6	28	•	•	—	—	—	—
														Skegness ..	4·1	- 1·5	30	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	68	26th	42	28th	63·1	48·0	55·1	- 3·7	5	1·39	35	+ 22	Cromer	3·9	- 1·7	28	•	•	•	•	•	•
a Little Massingham ..	280	70	26th	41	28th	62·9	46·1	54·0	- 4·1	5	1·51	38	+ 20	Lit. Massingham	3·1	- 2·2	23	•	•	•	•	•	•
a Yarmouth	13	70	26th	45	28th	63·4	50·3	56·5	- 2·3	4	1·34	34	+ 18	Yarmouth ..	4·3	—	31	0	43	59·7	- 2·2	58·9	- 2·0
a Norwich	93	69	26th	41	28th	63·1	48·4	55·3	- 3·4	5	1·42	36	+ 20	Norwich ..	3·3	—	24	0	37	58·8	•	•	•
a Geldeston	37	71	26th	38	28th	65·4	47·1	55·7	- 2·9	5	1·08	28	+ 13	Geldeston ..	3·6	- 2·1	26	•	•	•	•	•	•
p Cambridge	41	70	28th	40	28th	65·3	47·6	55·9	- 3·1	6	1·48	38	+ 24	Cambridge ..	4·4	- 1·2	32	0	37	60·8	- 0·1	60·0	0·0
a Clacton-on-Sea ..	54	69	26th	48	28, 30	65·6	53·1	59·0	- 0·5	5	1·90	48	+ 36	Clacton	4·3	- 2·2	31	0	40	60·4	- 0·3	60·4	+ 0·3
a Rothamsted	424	67	28th	41	28th	62·3	48·9	55·2	- 2·6	7	2·20	56	+ 40	Rothamsted ..	4·5	- 1·1	33	0	36	58·8	•	•	•
p Tottenham	51	70	28th	46	28th	66·7	52·1	59·0	—	7	1·99	51	—	Tottenham ..	2·5	—	18	0	43	•	•	63·1	+ 1·5
														S'thend-on-Sea	4·0	—	29	0	47	63·3	—	—	—
4. MIDLAND COUNTIES.																							
a North .. a Harrogate	479	65	26th	41	28th	58·4	45·4	51·5	- 4·3	4	1·44	37	+ 19	Harrogate	4·1	- 0·7	29	0	33	55·6	- 0·6	56·1	+ 0·2
p Sheffield	429	67	26th	44	28th	57·9	47·4	52·3	—	6	1·86	47	—	Sheffield.. ..	3·4	- 1·1	25	0	35	56·7	- 1·1	56·3	+ 0·3
p Buxton	987	62	26th	39	28th	54·9	44·9	49·6	—	7	2·45	62	+ 33	Buxton	2·4	—	18	0	36	55·2	- 2·1	56·8	+ 1·3
b, East .. a Bawtry	65	68	26th	40	28th	59·9	47·4	53·3	- 4·2	6	1·59	40	+ 26	Worksop ..	3·5	- 0·8	26	0	31	57·0	—	56·9	—
a Nottingham	82	68	26th	41	28th	60·3	47·1	53·3	- 4·4	4	1·26	32	+ 16	Nottingham ..	2·9	- 1·9	21	0	37	55·7	- 2·8	59·2	+ 0·4
p Birmingham, Edgbsn.	535	66	24, 26	42	30th	61·1	48·0	54·2	- 3·4	5	1·43	36	+ 19	Birmingham ..	3·5	- 0·6	26	0	36	54·9	- 0·6	54·5	+ 0·7
a Raunds	203	72	26th	39	28th	65·0	47·6	55·8	- 2·9	7	1·10	28	+ 12	Raunds	4·5	—	33	0	31	60·8	—	57·1	—
p Oxford	208	70	28th	43	30th	64·6	50·0	56·9	- 1·8	7	1·91	49	+ 34	Oxford	3·9	- 1·4	28	0	37	•	•	•	•
c, West .. a Cheadle (N. Staffs.) ..	646	66	24th	41	28th	59·3	46·3	52·4	- 3·7	6	1·26	32	+ 10	Cheadle	•	•	•	0	37	•	•	•	•
p Tenbury	313	68	24th	37	28th	61·4	46·0	53·2	- 3·7	5	1·75	44	+ 28	Tenbury	•	•	•	0	34	58·6	—	—	—
p Ross-on-Wye	201	67	24, 26	41	28th	62·7	48·7	55·3	- 2·7	5	1·25	32	+ 16	Ross-on-Wye ..	3·2	—	23	0	36	—	—	—	—
a Clifton	228	70	28th	47	30th	63·0	53·3	57·9	- 2·0	6	1·38	35	+ 7	Clifton	3·9	—	29	0	43	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	71	24th	39	28th	64·9	49·3	56·6	- 0·1	6	1·91	49	+ 31	Worthing	5 0	- 1·4	37	0	42	62·2	0·0	60·7	- 0·1
p Salisbury (Wilton) ..	180	68	24, 26, 28	40	30th	64·9	49·3	56·6	- 1·9	6	2·78	71	+ 52	Marlborough ..	—	—	—	0	33	58·9	—	57·6	—
a Wisley, Surrey ..	150	72	28th	42	28th	66·1	51·6	58·4	- 0·3	6	1·84	47	+ 31	Salisbury	•	•	•	0	36	61·9	•	•	•
a Tunbridge Wells ..	354	68	26th	43	30th	65·3	52·1	58·3	- 0·6	7	2·48	63	+ 45	Wisley	4·8	- 0·8	35	0	31	60·6	- 0·1	59·3	- 0·5
a Margate	51	70	26, 28	50	28th	66·6	54·4	60·1	- 0·6	5	1·84	47	+ 32	Tunbridge Wells	4·7	- 1·2	35	0	37	60·6	- 0·9	59·6	—
														Margate	4·6	- 1·1	34	0	41	64·0	+ 2·7	63·9	+ 3·8
a Dungeness	21	68	28th	47	30th	65·1	54·4	59·4	- 0·7	6	1·23	31	+ 15	Folkestone ..	4·9	—	36	•	•	•	•	56·5	—
p St. Leonards	178	67	28th	45	30th	64·7	53·0	58·5	- 1·6	6	1·70	43	+ 25	St. Leonards ..	4·9	- 1·4	36	0	43	62·2	—	61·1	—
p Southampton	64	68	24th	44	30th	65·0	52·3	58·3	- 2·2	6	2·47	63	+ 44	Southampton ..	4·0	- 2·0	29	0	38	•	•	•	•
a Ventnor	59	67	26th	47	30th	64·0	55·4	59·4	- 1·7	7	2·10	53	+ 36	Ventnor	4·1	- 2 0	30	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	72	26th	45	28th	65·7	52·5	58·7	- 0·8	7	1·72	44	+ 28	Richmond	4·4	- 1·0	32	0	33	60·4	0·0	58·8	0·0
a Westminster	27	73	28th	45	28th	66·6	52·8	59·3	- 1·2	7	1·63	41	+ 26	Westminster ..	4·3	- 0 5	32	0	38	•	•	•	•
ag Greenwich	149	75	26th	43	28th	68·0	51·4	59·2	- 1·2	6	1·78	45	+ 33	Greenwich ..	4·3	- 1·8	32	1	39	•	•	•	•
a Hampstead	450	70	26th	43	30th	63·3	50·0	56·3	—	7	1·89	48	—	Hampstead ..	4·2	—	31	0	32	•	•	•	•
ag Camden Square ..	110	75	26th	45	28, 30	68·7	52·0	59·9	- 1·1	7	1·97	50	+ 34	Camden Square	4·0	- 0·6	29	0	41	•	•	•	•
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	62	24th	40	28th	57·6	45·0	50·9	- 4·9	6	2·24	57	+ 30	Aspatria.. ..	3·2	- 1·3	23	0	38	54·6	- 3·6	55·0	- 0·7
p Newton Rigg	559	64	24th	39	28th	57·4	43·6	50·1	- 4·6	5	1·79	43	+ 21	Newton Rigg ..	3·8	- 0·6	27	1	29	56·0	- 1·7	56·2	+ 0·1
p Stonyhurst	375	63	24th	41	28th	57·7	46·7	51·9	- 4·0	6	2·25	57	+ 25	Stonyhurst ..	2·9	- 1·3	21	0	37	•	•	•	•
p Blackpool	66	65	26th	43	28th	59·6	48·1	53·5	- 3·5	6	2·35	60	+ 37	Blackpool ..	4·0	- 1·0	29	0	32	57·6	—	56·2	—
a Southport	37	63	26th	44	29th	57·7	48·3	52·7	- 4·4	6	1·78	45	+ 23	Southport ..	4·1	- 0·8	30	0	40	58·2	- 2·2	60·3	+ 0·1
														Hoylake ..	3·6	- 1·1	26	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	62	26th	44	29th	57·1	48·6	52·6	- 5·0	5	2·13	54	+ 35	Liverpool ..	3·3	—	24	0	41	•	•	•	•
a Hawarden Bridge ..	22	65	26th	46	30th	60·0	49·7	54·5	- 3·6	6	2·30	58	+ 42	Manchester(City)	2·8	- 0·8	20	0	40	58·6	- 0·3	60·7	+ 1·1
p Manchester (Whit. Pk.)	125	65	24, 26	44	28th	59·4	48·1	53·4	- 4·5	7	2·15	55	+ 34	Whitworth Park	2·3	- 1·3	17	•	•	•	•	•	•
b NORTH WALES.																							
p Llandudno	16	65	26th	46	28th	60·1	48·9	54·2	- 4·1	7	2·17	55	+ 32	Llandudno ..	4·0	- 1·0	29	•	•	•	•	•	•
a Holyhead	15	62	24th	48	29, 30	58·3	50·6	54·2	- 3·2	5	1·46	37	+ 16	Holyhead ..	4·3	—	31	0	40	•	•	•	•
a Beddgelert	309	63	24th	45	28–30	56·9	48 0	52·2	—	7	5·16	131	—	Aberdovey ..	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
8. *a.* SOUTH WALES.																							
a Aberystwyth	59	64	25th	46	29th	59·0	51·3	54·9	—	7	1·55	39	—	Aberystwyth ..	3·1	− 2·1	23	*	*	*	*	*	*
a Rhayader	767	64	24, 25	35	28th	57·4	46·4	51·6	—	6	2·18	55	—	Rhayader ..	2·4	—	18	1	29	*	*	*	*
a St. Ann's Head	149	68	24, 25	47	29th	60·7	53·0	56·6	− 1·3	7	1·90	48	+ 27	St. Ann's Head ..	3·4	− 2·0	25	*	*	*	*	*	*
p Cardiff	202	67	24th	42	30th	62·0	48·1	55·2	− 3·0	5	1·85	47	+ 20	Cardiff	3·5	—	26	0	38	60·1	−0·2	59·8	+0·6
b. ENGLAND, S.W.																							
a Bath	66	70	24, 28	40	30th	65·1	51·1	57·7	− 0·8	6	1·70	43	+ 25	Bath	*	*	*	*	*	62·5	+0·5	61·8	+0·4
a Shaftesbury	722	64	24, 26–28	42	30th	61·0	49·9	55·1	− 2·5	6	2·94	75	+ 56	Shaftesbury ..	*	*	*	*	*	59·5	*	60·1	—
a Arlington	613	67	24, 28	43	30th	62·1	50·3	55·9	− 0·9	7	1·79	45	+ 12										
a Newquay	190	69	25th	50	29, 30	63·6	54·0	58·5	− 0·5	7	1·74	44	+ 26	Newquay ..	3·9	− 1·9	29	0	?	63·5	—	61·0	—
a Cullompton	202	72	24th	39	30th	65·3	50·4	57·4	− 0·7	7	2·67	68	+ 49	Cullompton ..	3·0	− 2·2	22	0	35	61·9	*	*	*
a Portland Bill	19	64	24, 26–28	52	30th	62·3	56·0	59·0	− 0·7	7	1·65	42	+ 28	Weymouth ..	4·2	—	31	*	*	*	*	*	*
p Plymouth	116	69	24th	45	30th	65·3	54·4	59·5	+ 0·2	7	2·39	61	+ 42	Plymouth ..	4·4	− 1·3	32	0	39	63·1	+1·3	61·1	—
a Falmouth	167	70	24th	46	30th	64·4	53·3	58·5	− 0·3	7	2·33	59	+ 37	Falmouth ..	4·7	− 1·3	35	0	41	63·5	—	63·3	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	63	27th	47	27th	56·1	49·1	52·4	− 3·2	6	1·02	26	+ 5	Malin Head ..	5·2	—	37	*	*	*	*	*	*
a Blacksod Point ..	37	64	25th	48	29, 30	58·4	50·9	54·4	− 2·0	6	1·81	46	+ 17	Markree Castle	2·5	− 1·2	18	0	36	59·4	+0·1	57·8	+0·7
p Markree Castle ..	122	66	25th	42	30th	58·9	47·0	52·6	− 2·2	6	1·86	47	+ 21										
b. East .. { *p* Armagh	196	65	25th	41	29, 30	59·6	45·0	51·9	− 3·4	6	1·51	38	+ 17	Armagh	3·7	− 0·1	27	0	36	57·7	−1·2	57·4	−0·3
a Donaghadee	39	62	26th	39	30th	58·6	44·4	51·1	− 4·7	6	1·26	32	+ 13										
10. IRELAND, S.																							
p Dublin, City	47	67	25th	43	30th	59·7	49·0	54·0	− 3·7	5	1·23	31	+ 16	Trinity Coll. ..	*	*	*	—	—	—	—	—	—
a Birr Castle	175	65	24th	40	30th	58·6	49·0	53·5	− 2·6	7	1·34	34	+ 16	Phœnix Park ..	4·3	− 0·2	31	2	29	*	*	*	*
a Kilkenny	195	69	25th	36	30th	60·3	48·7	54·2	− 2·4	7	1·31	33	+ 16	Dublin City ..	*	*	*	0	40	*	*	*	*
a Waterford	137	70	26th	40	30th	62·0	49·4	55·3	− 2·2	7	2·40	61	+ 41	Birr Castle ..	1·5	− 2·5	11	0	33	*	*	*	*
p Seskin, Carrick-on-Suir	535	68	25th	40	30th	59·7	46·6	52·8	—	7	2·58	66	—	Seskin	3·2	—	23	0	37	*	*	*	*
a Cahir	198	71	25th	40	30th	61·0	49·7	55·0	− 1·9	7	1·61	41	—										
a Foynes	50	70	24th	47	29th	60·6	52·3	56·2	− 0·9	7	1·70	43	+ 23										
a Cahirciveen (Val. Obs.)	30	65	24th	45	28th	60·9	52·1	56·2	− 1·5	7	1·54	39	+ 12	Cahirciveen ..	4·1	− 0·3	30	0	42	*	*	*	*
a Killarney	174	68	24th	44	29th	62·6	52·3	57·1	− 0·5	7	1·49	38	+ 14	Ballinacurra ..	—	—	—	*	*	*	*	*	*
a Roche's Point	32	69	25th	47	29th	61·4	52·0	56·4	− 1·4	7	2·22	56	+ 35										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	71	24th	50	29, 30	64·9	55·3	59·8	+ 0·1	6	1·78	45	+ 28	Scilly	5·4	− 0·6	40	*	*	*	*	*	*
a Jersey, St. Aubins ..	25	72	25th	49	30th	67·1	56·6	61·5	− 0·1	6	1·65	42	+ 26	St. Heliers ..	5·3	− 1·3	39	*	*	*	*	*	*
a Guernsey (Villa Carey)	180	71	25th	48	30th	65·4	56·3	60·6	− 0·7	7	2·51	64	+ 47	Guernsey† ..	5·1	− 1·5	37	0	40	62·8	−0·3	62·1	0·0

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, August 30th, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	26	3	26, 27	20	61	49	10	25	45	18	26	15	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	25	111	32	0	45	8	26	4	20	27	17	10
Aberdeen	153	105	62	—	—	25 to 27, 30	23	53	78	14	0	293	15	27	13	23	27	12	30
Edinburgh	485	39	31	—	—	—	—	68	73	27	0	315	10	27	12	16	27	12	45
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	27	1	69	52	46	0	290	11	27	15	19	27	15	10
Paisley	188	81	15	—	—	27	5	23	92	38	10	304	12	27	12	25	27	12	20
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	10	78	80	0	304	8	27	9	16	27	9	20
South Shields	72	61	12	—	—	27	5	65	82	16	0	293	12	27	15	19	27	15	35
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	25, 28	17	64	76	11	0	—	15	28	13	20	28	15	0
Shoeburyness	103	90	‡	28	1	26 to 28	15	86	46	20	0	191	17	28	14	24	28	14	0
4. MIDLAND COUNTIES																			
Benson	270	84	‡	—	—	—	—	65	82	21	0	225	10	26	16	19	26	16	10
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	26, 28	7	75	60	26	0	—	13	28	11	21	28	11	5
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument out of adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡‡	—	—	26 to 28	17	75	59	13	4	280	16	26	16	20	26	15	30
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	50	79	39	0	225	11	28	15	19	26	17	10
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	21	60	87	0	247	10	27	14	17	27	14	5
Fleetwood (Cup Anr.) ..	109	44	—	27	12	26 to 30	•29	72	50	5	0	304	16	27	9	—	—	—	—
Southport	80	62	48	27	12	26 to 30	39	52	65	0	0	293	22	27	5	29	27	5	30
Holyhead	60	40	‡	26, 27	3	26 to 29	38	72	39	16	0	304	18	27	6	23	26	22	30
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	25 to 28, 30	28	73	51	16	0	270	15	26	16	23	26	15	35
Plymouth	185	88	2	—	—	25, 28	4	48	80	36	0	—	14	28	7	20	28	6	55
Lyme Regis (Rousdon)	600	65	30*	—	Instrument out of adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	26	1	26 to 28	33	75	46	13	0	270	18	26	20	—	—	—	—
Quilty	100	40	‡‡	—	—	26, 27, 29	28	84	28	29	0	—	16	26	9	24	26	8	40
Cahirciveen (Val. Obs.)	98	41	‡‡	—	—	26, 28	5	78	65	15	5	325	13	26	8	20	26	8	25
Weaver Pt.	160	30	‡	—	—	26, 28	19	78	67	3	1	—	15	26	10	23	26	9	10
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	25 to 30	28	72	47	16	5	293	15	26	17	22	26	19	5

† More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.
* Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

THIRTY-FIFTH WEEK of 1919—August 24th to August 30th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	63	34	85·2	80·0	82·4	− 2·3	49	− 30	0	0	6	+ 1	1·88	48	+ 16	3·9	+0·5	28	1003
Eastern.																			
1. SCOTLAND, EAST ...	64	29	86·8	79·4	82·9	− 2·3	55	− 32	0	0	4	− 1	1·17	30	+ 9	3·4	−0·9	24	1002
2. ENGLAND, N.E.	70	39	88·7	81·4	84·8	− 2·0	79	− 25	0	0	4	0	1·56	40	+ 25	3·6	−1·3	26	1003
3. ENGLAND, EAST ...	71	38	90·9	82·5	86·4	− 1·4	99	− 17	0	0	5	+ 1	1·59	40	+ 26	3·8	−1·8	28	1005
4. MIDLAND COUNTIES ...	72	37	89·4	81·9	85·4	− 1·7	87	− 21	0	0	6	+ 2	1·44	37	+ 20	3·6	−1·4	26	1005
5. ENGLAND, S.E.	72	39	91·4	84·3	87·7	− 0·6	115	− 8	0	0	6	+ 2	2·02	51	+ 34	4·6	−1·3	34	1006
Western.																			
6. SCOTLAND, WEST ...	64	35	87·1	80·1	83·4	− 2·3	61	− 31	0	0	5	+ 1	1·32	34	+ 3	4·8	+0·4	34	1003
7. ENGLAND, N.W.	65	39	87·7	81·7	84·6	− 2·2	76	− 28	0	0	6	+ 2	2·05	52	+ 29	3·6	−0·9	26	1004
8. ENGLAND, S.W.	72	35	90·0	83·8	86·7	− 0·8	103	− 10	0	0	7	+ 3	2·13	54	+ 30	3·6	−1·8	26	1006
9. IRELAND, NORTH ...	66	39	87·7	81·7	84·5	− 1·6	75	− 20	0	0	6	+ 1	1·47	37	+ 14	3·1	−0·7	22	1004
10. IRELAND, SOUTH ...	71	36	89·0	83·3	85·9	− 1·1	93	− 14	0	0	7	+ 3	1·65	42	+ 22	3·3	−1·0	23	1006
11. ENGLISH CHANNEL ...	72	48	91·8	86·4	88·9	0·0	130	− 1	0	0	6	+ 2	1·98	50	+ 34	5·3	−1·2	39	1008

THE SEASON (Summer).—Aggregates, &c., for the Period of 13 Weeks, June 1st to August 30th, 1919.

0. SCOTLAND, NORTH ...	75	34	88·0	81·7	84·6	− 0·6	998	−102	0	− 1	55	− 2	10·37	265	+ 3	4·3	0·0	26	1014
Eastern.																			
1. SCOTLAND, EAST ...	78	29	90·2	81·3	85·5	− 0·5	1141	− 83	0	0	41	− 9	4·92	127	− 81	5·9	+0·7	36	1015
2. ENGLAND, N.E.	84	38	91·5	82·9	86·9	− 0·3	1369	− 35	0	0	42	− 2	5·71	145	− 35	5·5	−0·2	34	1016
3. ENGLAND, EAST ...	86	32	92·4	83·2	87·5	− 0·7	1464	−112	0	0	36	− 6	6·22	159	− 4	6·0	−0·4	38	1017
4. MIDLAND COUNTIES ...	86	35	92·4	83·0	87·6	− 0·2	1486	− 28	0	0	37	− 5	6·26	159	− 22	5·7	−0·1	37	1017
5. ENGLAND, S.E.	86	35	92·9	83·8	88·1	− 0·5	1555	− 88	0	0	33	− 7	5·38	135	− 25	6·3	−0·5	41	1018
Western.																			
6. SCOTLAND, WEST ...	77	34	90·1	82·2	85·9	− 0·6	1205	−108	0	0	47	− 4	9·28	236	− 37	6·6	+1·0	41	1016
7. ENGLAND, N.W.	83	36	90·6	83·4	86·8	− 0·5	1349	− 88	0	0	39	− 8	6·49	164	− 67	5·7	−0·1	36	1018
8. ENGLAND, S.W.	85	35	92·0	83·8	87·6	− 0·2	1486	− 36	0	0	35	−11	6·10	153	− 69	7·0	+0·6	45	1019
9. IRELAND, NORTH ...	78	36	89·7	82·9	86·1	− 0·5	1238	− 81	0	0	49	− 9	7·81	197	− 49	5·0	+0·2	31	1017
10. IRELAND, SOUTH ...	80	36	91·6	83·7	87·4	− 0·1	1450	− 18	0	0	43	− 7	6·62	167	− 74	5·7	+0·4	36	1020
11. ENGLISH CHANNEL ...	85	46	91·8	85·5	88·4	− 0·3	1613	− 54	0	0	29	−15	5·19	131	− 35	7·5	−0·2	49	1021

THE YEAR 1919.—Aggregates, &c., for the Period of 35 Weeks, December 29th, 1918, to August 30th, 1919.

0. SCOTLAND, NORTH ...	78	11	83·3	77·2	80·1	− 0·7	1389	−153	680	+ 141	147	−14	26·00	663	−129	3·8	+0·2	28	1011
Eastern.																			
1. SCOTLAND, EAST ...	78	5	84·3	76·6	80·3	− 0·8	1564	−174	787	+ 170	122	−16	16·26	418	− 83	4·3	0·0	32	1012
2. ENGLAND, N.E.	84	11	85·3	78·0	81·5	− 0·4	1881	− 96	578	+ 106	126	+ 2	16·60	422	+ 20	4·2	−0·4	32	1013
3. ENGLAND, EAST ...	86	10	86·0	78·2	81·9	− 0·7	2067	−207	580	+ 86	118	− 2	17·00	435	+ 56	4·6	−0·4	35	1014
4. MIDLAND COUNTIES ...	86	9	86·1	78·0	81·9	− 0·5	2105	−131	628	+ 106	116	− 3	19·55	497	+ 68	4·3	−0·2	32	1014
5. ENGLAND, S.E.	86	16	86·5	79·0	82·6	− 0·5	2262	−149	451	+ 72	116	0	19·24	486	+ 77	4·7	−0·5	36	1014
Western.																			
6. SCOTLAND, WEST ...	83	14	84·9	77·9	81·3	− 0·6	1733	−170	539	+ 123	133	−12	24·09	612	−118	4·7	+0·3	35	1013
7. ENGLAND, N.W.	83	16	85·2	78·7	81·8	− 0·6	1911	−151	494	+ 112	122	− 8	19·42	494	− 56	4·4	−0·2	33	1013
8. ENGLAND, S.W.	85	15	86·1	79·1	82·4	− 0·6	2132	−138	409	+ 108	124	− 5	24·40	620	+ 34	5·1	+0·1	38	1014
9. IRELAND, NORTH ...	78	22	85·1	78·6	81·7	− 0·6	1818	−154	437	+ 97	149	−10	20·98	528	− 83	4·2	+0·2	32	1012
10. IRELAND, SOUTH ...	80	22	86·3	79·3	82·7	− 0·4	2151	−129	362	+ 102	142	+ 2	21·53	548	− 89	4·5	0·0	34	1014
11. ENGLISH CHANNEL ...	85	26	86·6	81·2	83·8	− 0·4	2444	−146	137	+ 32	126	− 7	25·18	637	+166	5·5	−0·4	42	1015
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: September 5th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN

FORTY-SECOND YEAR. *Vol. XXXVI. (New Series.)* } No. 36.

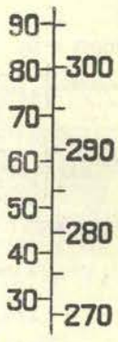
THE THIRTY-SIXTH WEEK OF 1919.

SUNDAY, AUGUST 31ST, TO SATURDAY, SEPTEMBER 6TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

Areas of low pressure over or in the immediate proximity of the British Islands persisted throughout the week. The winds were mostly from some southerly point and generally light in force. At the close of the period barometric pressure was increasing, as an anticyclone from the Atlantic spread over our south-western districts. The mean temperature was equal to the normal over the English Channel, but in all other Districts it was above it, the divergence being about 1 a. The highest of the maxima occurred on Friday or Saturday, when the thermometer rose to about 299 a. at some stations over England E. and England S.E. The lowest of the minima were recorded either on Sunday or Monday, the actual lowest being 273 a. at Markree Castle; for Great Britain the lowest was 275 a. at Balmoral and at some stations in central England; ground frost was recorded at a few inland stations. On the other hand, at the end of the week the nights were very sultry, minimum readings as high as 290 a. being common. Rainfall was less than the normal in Scotland N. and England E. and equal to it in Scotland E., elsewhere there was an excess, the largest divergence being 21mm. in the English Channel. In all the western districts there were either five or six rain-days. Amounts of 20mm. and more were recorded on the 1st; at Blackpool 20mm., Douglas 29mm., and Beddgelert (Snowdonia) 92mm. The observer at the last-named station reports "Very big floods, main roads under water." At Guernsey (Villa Carey) 58mm. fell during the 18 hours, 15h. 2nd to 9h. 3rd. Thunder and lightning occurred over central and southern England on the night of the 5th. Auroral displays were observed in the north-east of Scotland on the 2nd, 3rd and 6th. Solar halos were seen at Clacton-on-Sea on September 4th, at Oxford on August 31st and September 1st and 6th, and at Ross-on-Wye and Tenbury on the 5th; lunar halos at Tenbury on the 2nd and at Folkestone on the 5th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E. Shoeburyness.†		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	—	—	23	4·9	19	4·6	17	3·3	24	5·3	19	4·8	26	4·1	24	5·4
North	—	—	2	1·2	3	2·7	3	2·9	4	4·3	7	3·0	2	1·1	1	0·7
West	—	—	14	3·2	12	2·6	14	1·5	23	3·0	19	2·0	12	3·5	12	3·4
East	—	—	2	1·3	8	3·0	1	1·6	2	2·8	7	1·4	11	2·3	10	1·6
Calm	—	—	3	—	4	—	7	—	0	—	0	—	0	—	3	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Moderate	Unusual	Unusual	Moderate
	Rainfall ...	Moderate	Moderate	Heavy	Moderate	Moderate	Moderate	Heavy	Moderate	Moderate	Moderate	Heavy	Heavy
	Sunshine ...	Abundant	Abundant	Scanty	Moderate	Scanty	Moderate	Abundant	Moderate	Scanty	Abundant	Abundant	Moderate

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

AUTUMN. 1 week from August 31st, 1919.	Warmth ...	0, 1, 0	1, 0, 0	1, 0, 0	1, 0, 0	1, 0, 0	1, 0, 0	1, 0, 0	1, 0, 0	0, 1, 0	1, 0, 0	1, 0, 0	0, 1, 0
	Rainfall ...	0, 1, 0	0, 1, 0	1, 0, 0	0, 1, 0	0, 1, 0	0, 1, 0	1, 0, 0	0, 1, 0	0, 1, 0	0, 1, 0	1, 0, 0	1, 0, 0
	Sunshine ...	1, 0, 0	1, 0, 0	0, 0, 1	0, 1, 0	0, 0, 1	0, 1, 0	1, 0, 0	0, 1, 0	0, 0, 1	1, 0, 0	1, 0, 0	0, 1, 0

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(25052—19.) Wt. 162—833/512. 625. 9/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week.				No. of ft.-in-Days.								Grass Min.		Earth 1 ft.		Earth 4 ft	
						Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.		Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average
	Ft.	°F.		°F.		F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	°/₀.		°F.	°F.	°F.	°F	°F.
0. SCOTLAND, N.	54	62	6th	44	1st	57·6	49·3	53·3	+ 1·9	5	0·40	10	- 8										
a, Islands.. *a* Lerwick ..	520	65	3, 5	42	2nd	58·3	46·6	52·2	—	6	0·39	10	- 7	Houton Bay ..	5·0	+ 1·0	37	0	41	•	•	•	•
a Houton Bay, Orkney	51	62	1, 4, 5	44	31st	60·6	50·9	55·5	+ 2·7	7	0·83	21	- 2	Stornoway ..	4·0	- 0·4	29	•	•	•	•	•	•
a Stornoway	87	61	5th	47	31st	58·3	53·0	55·5	—	4	0·24	6	—	Castlebay ..	4·3	—	32						
a Castlebay, Barra I. ..																							
b, Mainland. *a* Wick	81	63	3, 6	42	1st	58·7	48·6	53·4	+ 0·7	3	0·16	4	- 11										
a Strathpeffer	125	71	5th	40	4th	62·9	47·1	54·6	+ 0·8	4	0·20	5	- 8										
p Glencarron	500	66	5th	44	2nd	58·9	46·9	52·6	+ 0·1	6	0·84	21	- 23										
a Fort Augustus.. ..	60	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William	171	70	5th	43	31st	63·1	49·9	56·2	+ 1·7	6	1·66	42	+ 5										
1. SCOTLAND, E.																							
a Nairn	82	72	5th	41	4th	67·6	47·7	57·2	+ 3·5	4	0·27	7	- 3	Nairn	5·5	—	40	•	•	•	•	•	•
p Gordon Castle	101	72	5th	44	1st	66·7	50·0	58·0	+ 3·9	4	0·21	5	- 7	Gordon Castle..	6·4	—	47	•	•	•	•	•	•
a Aberdeen	46	70	6th	42	1st	63·3	49·6	56·1	+ 2·1	2	0·13	3	- 7	Aberdeen ..	5·2	+ 0·4	38	0	35	•	•	53·0	- 0·5
a Balmoral	930	68	3rd	35	1st	63·4	42·6	52·5	+ 1·6	4	0·38	10	- 1	Balmoral ..	•	•	•	0	32	•	•	•	•
p Crieff	432	67	5th	43	1st	62·9	49·4	55·8	+ 1·2	5	0·95	24	+ 10	Crathes	5·3	+ 0·8	39	1	30	54·9	- 0·4	53·9	- 0·9
a Dundee	244	70	5th	42	1st	64·6	47·7	55·7	+ 1·1	4	0·58	15	+ 5	Dundee	5·5	—	41	0	37	54·9	•	•	•
a Leith	30	70	2, 5	45	31st	66·0	51·6	58·5	+ 2·7	3	0·37	9	0	Leith	•	•	•	0	42	•	•	•	•
p Edinburgh	441	69	2, 5	44	31st	65·1	52·0	58·2	+ 3·8	4	0·33	8	- 1	Edinburgh ..	5·7	+ 1·5	43	0	39	•	•	•	•
a West Linton	769	65	2-5	39	31st	62·4	45·6	53·6	+ 2·5	4	0·54	14	—	West Linton ..	4·4	—	33	0	33	•	•	•	•
p Marchmont	498	70	5th	42	31st	64.4	49·3	56·5	+ 2·9	6	0·53	13	+ 2	Marchmont .	4·9	+ 0·7	37	•	•	•	•	•	•
6. *a*, SCOTLAND, W.																							
a Ford (Argyll)	149	63	3, 5, 6	41	31st	61·3	49·1	54·9	—	6	1·87	48	—	Ford (Argyll) ..	•	•	•	0	33	56·7	—	55·6	—
p Glasgow Observatory	180	67	5th	45	31st	62·3	52·1	57·0	+ 2·5	5	1·09	28	+ 10	Glasgow.. ..	4·6	+ 0·6	34	0	35	•	•	•	•
p Rothesay	200	63	5th	45	31st	59·9	50·6	55·0	+ 0·1	6	1·55	39	+ 15	Rothesay ..	3·7	—	28	0	40	56·1	—	54·6	- 0·4
a Kilmarnock	90	68	5th	42	31st	64·1	50·4	56·9	+ 3·1	5	1·09	28	+ 9	Kilmarnock .	5·5	—	41	•	•	56·0	—	54·0	—
a Colmonell	170	68	3rd	47	3rd	64·4	51·6	57·7	+ 3·3	5	1·04	26	+ 6	Colmonell ..	•	•	•	0	43	•	•	•	•
p Cally, Gatehouse ..	120	66	5th	38	31st	63·9	50·0	56·6	+ 2·9	5	2·06	52	+ 30	Dumfries	5·2	—	39	0	32	56·0	- 1·5	54·9	- 3·3
p Dumfries	160	68	5th	40	31st	64·0	51·4	57·4	+ 2·1	6	1·07	27	+ 11	Eskdalemuir ..	4·4	—	33	0	33	•	•	•	•
a Eskdalemuir	794	65	3, 5	40	31st	62·0	48·0	54·7	—	6	2·14	54	—										
b, I. OF MAN *p* Douglas	277	65	6th	43	31st	61·1	52·1	56·4	+ 1·1	4	2·13	54	+ 35	Douglas	6·0	+ 0·2	45	0	39	•	•	•	•
2. ENGLAND, N.E.																							
a Alnwick Castle ..	210	74	5th	42	31st	65·4	49·7	57·2	+ 2·6	2	0·39	10	- 4										
a Tynemouth	118	72	5th	44	31st	65·0	50·9	57·6	+ 2·4	2	0·25	6	- 5	Cockle Park ..	3·0	- 1·8	22	0	37	53·8	+0·3	53·6	- 0·6
p Durham	336	70	4, 5	42	31st	65·0	51·0	57·7	+ 2·6	2	0·18	5	- 6	Durham ..	2·9	- 1·5	21	0	31	•	•	•	•
a North .. *p* Rounton	249	71	4, 5	39	31st	64·9	51·0	57·6	+ 3·0	3	0·38	10	- 1	Rounton ..	•	•	•	1	30	56·0	•	•	•
a West Witton	605	71	5th	41	31st	64·6	50·1	57·0	—	5	0·25	6	—	West Witton ..	•	•	•	0	37	54·6	—	53·3	—
p Scarborough	100	74	6th	42	31st	67·0	52·7	59·5	+ 2·7	5	0·27	7	- 4	Scarborough† ..	3·2	- 1·8	24	•	•	•	•	57·3	—
p York	56	74	6th	39	31st	67·0	52·6	59·5	+ 2·8	5	0·60	15	+ 5	York	3·2	- 1·3	24	—	—	57·2	- 0·6	56·6	- 0·5
a Spurn Head	26	70	6th	47	31st	65·4	53·4	59·1	+ 1·5	5	1·77	45	+ 36	Spurn Head ..	•	•	•	•	•	•	•	•	•
b, South .. *a* Lincoln	58	73	6th	40	31st	67·6	53·1	60·0	+ 2·7	4	0·63	16	+ 6	Lincoln	•	•	•	0	39	57·5	- 0·7	57·0	- 0·6
a Fulbeck	180	72	5, 6	36	31st	67·1	51·7	59·0	+ 1·7	6	1·01	26	+ 16	Fulbeck* ..	4·1	- 1·3	31	•	•	—	—	—	—
														Skegness ..	5·1	- 0·6	38	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	76	5th	43	31st	68·6	52·1	60·0	+ 1·8	4	0·15	4	- 7	Cromer	5·4	+ 0·2	41	•	•	•	•	•	•
a Little Massingham ..	280	76	5th	42	31st	68·1	51·1	59·2	+ 2·0	3	0·85	22	+ 7	Lit. Massingham	5·1	+ 0·2	38	•	•	•	•	•	•
a Yarmouth	13	73	6th	44	31st	67·7	53·6	60·3	+ 2·2	0	0·00	0	- 13	Yarmouth ..	7·1	—	53	0	40	59·6	- 1·2	58·1	- 2·3
a Norwich	93	77	5th	37	31st	70·2	51·2	60·2	+ 2·3	1	0·68	2	- 12	Norwich ..	6·6	—	50	1	30	58·9	•	•	•
a Geldeston	37	79	5th	37	31, 1	72·1	50·6	60·8	+ 2·9	0	0·00	0	- 12	Geldeston ..	5·8	+ 0·5	44	•	•	•	•	•	•
p Cambridge	41	79	5th	41	1st	71·0	53·3	61·7	+ 3·7	3	0·33	9	- 2	Cambridge ..	4·9	- 0·3	37	0	38	61·0	+1·3	59·0	- 0·5
a Clacton-on-Sea ..	54	72	6th	47	1st	67·0	55·4	60·9	+ 2·2	1	0·02	1	- 10	Clacton	5·4	- 0·6	41	0	42	60·3	+0·6	59·5	- 0·2
a Rothamsted	424	76	5th	43	1st	67·4	53·6	60·2	+ 3·3	4	0·47	12	- 1	Rothamsted ..	4·5	- 0·6	34	0	36	58·7	•	•	•
p Tottenham	51	79	5th	47	1st	69·7	56·7	62·9	—	3	0·15	4	—	Tottenham ..	5·4	—	41	0	42	•	•	62·7	+1·5
														S'thend-on-Sea	4·9	—	37	0	47	62·9	+0·7	—	—
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	70	4th	38	31st	64·7	50·6	57·3	+ 2·2	4	0·54	14	+ 1	Harrogate ..	2·9	- 1·8	22	0	32	55·0	- 0·3	54·7	- 0·6
p Sheffield	429	69	6th	43	31st	64·6	53·1	58·6	—	5	0·80	20	—	Sheffield.. ..	3·5	- 0·8	26	0	33	56·1	- 0·8	55·4	- 0·4
p Buxton	987	65	5, 6	35	31st	61·1	49·9	55·2	—	5	0·70	18	- 3	Buxton	3·3	—	25	0	31	54·5	- 1·7	55·3	+ 0·1
a Bawtry	65	71	6th	38	31st	65·7	52·0	58·5	+ 1·8	5	0·28	7	- 3	Worksop	3·0	- 1·2	23	1	27	56·6	—	55·5	—
b, East .. *a* Nottingham	82	71	6th	35	31st	66·0	49·3	57·3	+ 0·4	5	0·51	13	+ 2	Nottingham ..	2·7	- 1·9	20	0	32	56·7	- 0·6	57·2	- 1·0
p Birmingham, Edgbsn.	535	70	6th	42	31st	63·6	52·3	57·7	+ 0·9	5	0·95	24	+ 12	Birmingham ..	2·5	- 1·5	19	1	29	54·2	- 0·4	53·5	- 0·3
a Raunds	203	77	5th	36	31st	69·4	51·3	59·9	+ 2·0	4	0·82	21	+ 10	Raunds	4·3	—	32	1	30	59·5	—	57·0	—
p Oxford	208	74	5th	47	31, 1	66·9	53·9	60·1	+ 2·3	4	0·87	22	+ 11	Oxford	3·7	- 1·5	28	0	39	•	•	•	•
a Cheadle (N. Staffs.) ..	646	70	6th	38	31st	63·9	50·1	56·7	+ 1·2	5	0·79	20	+ 4	Cheadle	•	•	•	0	32	•	•	•	•
c, West .. *p* Tenbury	313	71	6th	36	31st	66·0	50·3	57·8	+ 1·8	4	0·49	12	+ 1	Tenbury	•	•	•	0	31	57·5	—	—	—
p Ross-on-Wye	201	73	6th	42	31st	66·1	52·0	58·7	+ 1·6	5	0·86	22	+ 11	Ross-on-Wye ..	2·9	—	22	0	36	—	—	—	—
a Clifton	228	68	6th	48	31st	65·0	54·6	59·6	+ 0·5	5	0·80	20	- 1	Clifton	3·5	—	27	0	47	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	70	5, 6	41	1st	64·6	51·7	57·8	+ 2·0	5	1·17	30	+ 14	Worthing	5·4	- 0·7	41	0	43	61·9	+0·9	60·0	+0·1
p Salisbury (Wilton) ..	180	73	5th	42	1st	66·7	53·4	59·7	+ 2·2	5	1·12	28	+ 12	Marlborough ..	—	—	—	0	35	57·9	—	57·1	—
a Wisley, Surrey ..	150	77	5th	43	1st	69·9	54·4	61·8	+ 4·1	3	0·30	8	- 7	Salisbury	•	•	•	0	39	61·2	•	•	•
a Tunbridge Wells ..	354	75	5th	42	1st	68·9	53·9	61·0	+ 3·0	3	0·15	4	- 12	Wisley	5·2	- 0·1	40	0	32	60·4	+0·9	58·5	- 0·7
a Margate	51	78	5th	49	1st	69·1	57·1	62·8	+ 2·8	1	0·01	0·3	- 14	Tunbridge Wells	4·0	- 1·7	31	0	42	60·3	+0·3	58·9	—
a Dungeness	21	71	5th	45	1st	66·7	55·0	60·6	+ 1·2	2	0·06	2	- 12	Margate	5·7	+ 0·1	44	0	42	63·1	+3·1	62·5	+3·0
p St. Leonards	178	72	5, 6	49	1st	67·3	56·7	61·8	+ 2·3	4	0·21	5	- 12	Folkestone ..	5·8	—	44	•	•	•	•	56·1	—
p Southampton	64	75	5th	46	1st	67·3	54·9	60·8	+ 1·1	4	1·68	43	+ 27	St. Leonards ..	5·6	- 0·4	43	0	46	62·0	—	60·4	—
a Ventnor	59	72	5th	51	1st	67·0	57·4	62·0	+ 1·5	4	0·52	13	- 4	Southampton ..	4·6	- 1·1	35	0	35	•	•	•	•
														Ventnor	4·6	- 1·2	35	•	•	•	•	•	•
LONDON. *a* Richmond (Kew Obs.)	18	77	5th	45	1st	69·6	54·1	61·5	+ 3·0	3	0·48	12	- 2	Richmond	4·9	- 0·2	37	0	35	60·4	+1·2	58·1	- 0·3
a Westminster	27	80	5th	45	1st	71·0	56·5	63·4	+ 3·8	3	0·13	3	- 10	Westminster ..	4·9	+ 0·4	37	0	†40	•	•	•	•
ag Greenwich	149	80	5th	43	1st	72·1	54·7	63·0	+ 3·6	3	0·07	2	- 9	Greenwich ..	5·1	- 0·7	39	0	31	•	•	•	•
a Hampstead	450	77	5th	47	1st	68·7	54·7	61·4	—	3	0·45	11	—	Hampstead ..	4·5	—	34	0	31	•	•	•	•
ag Camden Square ..	110	81	5th	44	1st	72·9	55·7	63·9	+ 3·9	3	0·21	5	- 9	Camden Square	4·1	- 0·3	31	0	40	•	•	•	•
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	69	5th	42	31st	63·0	51·9	57·2	+ 2·1	5	0·75	19	0	Aspatria.. ..	5·7	+ 0·6	43	0	38	55·0	- 2·0	54·0	- 1·5
p Newton Rigg	559	69	5th	40	31st	64·3	51·1	57·4	+ 3·4	4	0·41	10	- 6	Newton Rigg ..	4·9	0·0	37	1	28	55·5	- 1·0	55·0	- 0·5
p Stonyhurst	376	70	6th	41	31st	62·6	51·3	56·7	+ 1·5	6	1·26	32	+ 10	Stonyhurst ..	2·8	- 2·0	21	0	35	•	•	•	•
p Blackpool	66	69	4, 5	48	1st	64·0	53·7	58·6	+ 2·2	6	0·94	24	+ 8	Blackpool ..	4·7	- 0·8	35	0	39	56·7	—	55·5	—
a Southport	37	70	5th	47	1st	63·9	52·4	57·9	+ 1·5	5	1·10	28	+ 12	Southport ..	4·0	- 1·4	30	0	39	57·9	- 1·0	58·2	- 1·3
														Hoylake ..	3·6	- 1·6	27	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	71	5th	47	31st	64·6	52·3	58·2	+ 1·2	3	0·91	23	+ 9	Liverpool ..	3·7	—	28	0	38	•	•	•	•
a Hawarden Bridge ..	22	72	5th	43	31st	65·9	51·1	58·1	+ 0·7	5	0·37	9	- 2	Manchester(City)	3·5	- 0·5	26	0	33	57·0	- 0·7	59·5	+ 0·4
p Manchester (Whit. Pk.)	126	70	2nd	38	31st	64·9	52·3	58·3	+ 1·0	5	0·69	18	+ 4	Whitworth Park	3·6	- 0·4	27	•	•	•	•	•	•
b NORTH WALES.																							
p Llandudno	16	71	4th	42	31st	65·0	53·1	58·8	+ 1·0	5	0·67	17	+ 4	Llandudno ..	5·3	- 0·3	40	•	•	•	•	•	•
a Holyhead ..	15	65	5, 6	46	31st	62·4	52·9	57·4	+ 0·3	5	2·05	52	+ 37	Holyhead ..	5·8	—	44	0	43	•	•	•	•
a Beddgelert	309	67	3rd	37	31st	62·3	50·1	55·9	+ 0·2	7	4·92	125	—	Aberdovey ..	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

* Earth Temperatures refer to Rauceby.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average
8. *a*, SOUTH WALES.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
a Aberystwyth	59	67	4,5	40	31st	63·1	53·3	58·0	—	7	0·71	18	—										
a Rhayader	757	67	2,5	36	31st	63·4	48 3	55·5	—	4	0·34	9	—										
a St. Ann's Head ..	149	63	2-4	48	31,1	61 4	54·4	57·7	+ 0·1	5	0·65	17	+ 1										
p Cardiff	202	67	6th	47	31,1	63·7	53·1	58·2	+ 0·1	5	1·00	25	+ 6										
b, ENGLAND, S.W.																							
a Bath	66	71	6th	46	1st	67·3	53·3	60·0	+ 2·3	4	0·86	22	+ 9										
a Shaftesbury	722	69	6th	45	1st	63·0	51·1	56·8	- 0·2	5	0·84	21	+ 7										
a Arlington	613	68	5th	45	1st	64·0	52·3	57·9	+ 1·6	5	0·75	19	- 5										
a Newquay	190	69	5th	49	1st	65·0	54·7	59·6	+ 1·0	3	0·53	13	- 2										
a Cullompton	202	71	6th	43	1st	66·1	52·9	59·2	+ 1·9	5	1·12	29	+ 15										
a Portland Bill	19	68	5th	51	1st	63·9	55·6	59·6	+ 0·3	4	0·65	16	+ 5										
p Plymouth	116	69	6th	45	31st	63·7	53·4	58·3	- 0·4	5	1·00	25	+ 10										
a Falmouth	167	69	6th	49	1st	65·4	54·6	59·7	+ 1·4	4	0·85	22	+ 5										
9. IRELAND, N.																							
a West .. *a* Malin Head	208	66	31,4	48	1st	63·9	51·7	57·5	+ 2·1	5	0·28	7	- 9										
a Blacksod Point ..	37	65	4th	43	31st	62·9	51·3	56·8	+ 0·6	6	1·10	28	+ 6										
p Markree Castle ..	122	70	4th	32	31st	65·6	49·0	56·9	+ 2·5	7	1·48	38	+ 18										
b, East .. *p* Armagh	196	71	4th	39	31st	66·0	50·4	57·8	+ 2·9	7	0·52	13	- 2										
a Donaghadee	39	67	6th	43	31st	63·3	49·9	56·3	+ 0·8	6	1·04	26	+ 12										
10. IRELAND, S.																							
p Dublin, City	47	71	5th	42	31st	65·3	52·7	58·7	+ 1·6	5	0·90	23	+ 11										
a Birr Castle	175	70	4th	40	31st	65·6	42·7	56·7	+ 1·2	7	1·06	27	+ 13										
a Kilkenny	195	70	4th	43	31st	66·3	52·0	58·8	+ 2·8	6	0·79	20	+ 6										
a Waterford	137	70	2nd	42	31st	66·1	51·1	58·2	+ 1·3	4	1·04	27	+ 11										
p Seskin, Carrick-on-Suir	535	68	6th	41	31st	64·6	50·3	57·1	—	5	0·82	21	—										
a Cahir	199	70	4th	40	31st	65·0	49·0	56·6	+ 0·3	5	0·78	20	—										
a Foynes	50	71	4th	44	31st	66·3	52·6	59·1	+ 2·5	6	1·27	32	+ 19										
a Cahirciveen (Val. Obs.)	30	67	4th	44	31st	64·0	51·7	57·6	+ 0·2	6	2·09	53	+ 39										
a Killarney	174	—	—	—	—	—	—	—	—	—	—	—	—										
a Roche's Point	32	66	6th	46	3rd	63·1	51·3	56·9	- 0·6	5	0·92	23	+ 11										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	67	2nd	54	31, 1, 4	65·0	54·9	59·7	+ 0·1	4	0·21	5	+ 1										
a Jersey, St. Aubins ..	25	76	5th	46	1st	66·7	55·3	60·7	- 0·6	3	1·38	35	+ 21										
a Guernsey (Villa Carey)	180	77	5th	52	1st	66·6	56·3	61·2	0·0	2	2·61	66	+ 51										
														Aberystwyth ..	5·2	0·0	39	*	*	*	*	*	*
														Rhayader ..	3·9	—	29	1	30	*	*	*	*
														St. Ann's Head	6·0	+ 0·7	46	*	*	*	*	*	*
														Cardiff	3·0	—	23	0	41	59·2	+0·1	58·6	−0·2
														Bath	*	*	*	*	*	61 1	0·0	60·7	−0·2
														Shaftesbury ..	*	·	*	*	*	58·2	—	58·8	—
														Newquay ..	5·6	- 0·2	43	*	*	61·7	—	60·3	—
														Cullompton ..	3·1	- 2·1	24	0	39	59·8	*	*	*
														Weymouth ..	3·8	—	29	*	*	*	*	*	*
														Plymouth ..	3·2	- 2·5	24	0	44	60·5	0·0	60·0	—
														Falmouth ..	4·1	- 1·7	31	0	45	62 2	—	62 8	—
														Malin Head ..	4·0	—	30	*	*	*	*	*	*
														Markree Castle	4·6	+ 0·4	35	1	29	58·7	+0·1	57·1	+0·2
														Armagh	5·0	+ 0·5	38	0	33	57·1	−0·7	56·3	−0·8
														Trinity Coll. ..	*	*	*	—	—	—	—	—	—
														Phœnix Park ..	6·4	+ 1·3	48	2	22	*	*	*	*
														Dublin City ..	*	*	*	0	38	*	*	*	*
														Birr Castle ..	6·1	+ 1·5	46	0	34	*	*	*	*
														Seskin	6·5	—	49	0	38	*	*	*	*
														Cahirciveen ..	6·1	+ 1·2	46	0	41	*	*	*	*
														Ballinacurra ..	—	—	—	*	*	*	*	*	*
														Scilly	7·6	+ 1·8	58	*	*	*	*	*	*
														St. Heliers ..	5·8	- 0·6	44	*	*	*	*	*	*
														Guernsey† ..	5·5	- 0·8	42	0	41	61·1	-1·3	61·4	-0 5

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, September 6th, 1919.

DISTRICT AND STATION.	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
0. SCOTLAND, N.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
Deerness (Cup Anr.)** ..	188	16	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	5	116	42	5	191	6	6	13	13	1	14	20
Aberdeen	153	105	52	—	—	—	—	37	103	28	0	180	9	1	14	15	1	12	40
Edinburgh	485	39	31	—	—	1	2	73	77	16	0	180	12	1	14	20	1	14	10
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	5	9	77	58	24	0	200	13	5	12	21	5	12	10
Paisley	188	81	15	—	—	—	—	24	127	17	0	191	11	5	15	21	5	15	30
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	3	75	90	0	191	6	5	12	12	5	12	5
South Shields	72	61	12	—	—	—	—	38	101	29	0	214	8	4	17	13	4	18	5
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	2,4,5	9	81	78	0	0	—	12	2	13	15	2	13	0
Shoeburyness	103	90	‡	—	—	—	—	67	73	28	0	203	10	4	14	13	4	14	25
4. MIDLAND COUNTIES																			
Benson	270	84	‡	—	—	—	—	52	69	47	0	180	9	4	13	15	5	11	25
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	46	89	33	0	—	8	4	14	12	4	14	35
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument out of adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	4,5	2	85	64	17	0	200	12	5	14	16	5	13	30
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	22	92	53	1	248	8	5	13	15	5	13	5
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	—	64	104	0	236	5	31	16	9	4	12	55
Fleetwood (Cup Anr.) ..	109	44	—	—	—	—	—	76	86	6	0	146	10	4	12	—	—	—	—
Southport	80	62	48	—	—	4	1	80	79	8	0	157	11	4	12	17	4	11	50
Holyhead	60	40	‡	—	—	1,4	6	115	42	5	0	169	12	4	10	19	4	10	45
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	1,2,4,5	34	62	44	28	0	203	15	4	11	20	4	11	5
Plymouth	185	88	2	4	2	4,5	19	47	56	43	1	—	19	4	22	22	4	22	15
Lyme Regis	556	61	‡	—	—	—	—	28	57	83	0	—	9	4	20	13	4	20	5
0. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	4	1	70	90	7	0	157	11	4	7	—	—	—	—
Quilty	100	40	‡	—	—	3 to 5	15	84	41	25	3	—	14	4	3	20	4	3	20
Cahirciveen (Val. Obs.)	98	41	‡	—	—	1, 3 to 5	21	82	55	10	0	145	12	3	32	32	3	20	20
Weaver Pt.	160	30	‡	—	—	1,4,5	10	82	72	4	0	—	14	4	3	20	4	5	5
1. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	58	88	22	0	157	10	4	3	16	4	2	15

† More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.
* Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

THIRTY-SIXTH WEEK of 1919—August 31st to September 6th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	71	40	88·7	82·3	85·4	+ 0·7	86	+ 8	0	0	5	0	0·68	17	− 6	4·5	+0·5	33	1005
Eastern.																			
1. SCOTLAND, EAST ...	72	35	91·1	82·0	86·3	+ 1·2	98	+ 14	0	0	4	0	0·42	11	0	5·4	+0·6	39	1006
2. ENGLAND, N.E.	74	36	91·9	84·1	87·8	+ 1·5	117	+ 19	0	0	4	+ 1	0·61	16	+ 5	3·6	−1·4	27	1010
3. ENGLAND, EAST ...	79	37	93·6	84·7	88·9	+ 1·6	131	+ 20	0	0	2	− 1	0·23	6	− 6	5·5	+0·2	41	1013
4. MIDLAND COUNTIES ...	77	35	91·7	83·9	87·7	+ 1·0	115	+ 12	0	0	5	+ 2	0·69	18	+ 6	3·1	−1·7	23	1012
5. ENGLAND, S.E.	78	41	92·8	85·7	89·1	+ 1·2	133	+ 16	0	0	3	0	0·57	15	0	5·1	−0 6	39	1013
Western.																			
6. SCOTLAND, WEST ...	68	38	90·0	83·5	86·6	+ 1·0	102	+ 12	0	0	5	+ 1	1·49	38	+ 17	5·3	+0·3	40	1008
7. ENGLAND, N.W.	72	38	90·8	84·2	87·3	+ 0·8	111	+ 11	0	0	5	+ 1	0·90	23	+ 7	4·5	−0·6	33	1009
8. ENGLAND, S.W.	71	36	90·9	84·6	87·6	+ 0·4	114	+ 5	0	0	5	+ 1	0·81	21	+ 4	4·4	−0·9	34	1011
9. IRELAND, NORTH ...	71	32	91·1	83·1	86·9	+ 1·1	105	+ 13	0	0	6	+ 2	0·91	23	+ 6	4·8	+0·5	36	1005
10. IRELAND, SOUTH ...	71	40	91·4	83·6	87·3	+ 0·6	111	+ 8	0	0	6	+ 2	1·13	28	+ 11	6·2	+1·3	47	1008
11. ENGLISH CHANNEL ...	77	46	91·9	86·1	88·8	0·0	130	+ 1	0	0	3	0	1·40	35	+ 21	6·3	+0·1	48	1013

THE SEASON (Autumn).—Aggregates, &c., for the Period of 1 Week, August 31st to September 6th, 1919.

0. SCOTLAND, NORTH ...	71	40	88·7	82·3	85·4	+ 0·7	86	+ 8	0	0	5	0	0·68	17	− 6	4·5	+0·5	33	1005
Eastern.																			
1. SCOTLAND, EAST ...	72	35	91·1	82·0	86·3	+ 1·2	98	+ 14	0	0	4	0	0·42	11	0	5·4	+0·6	39	1006
2. ENGLAND, N.E.	74	36	91·9	84·1	87·8	+ 1·5	117	+ 19	0	0	4	+ 1	0·61	16	+ 5	3·6	−1·4	27	1010
3. ENGLAND, EAST ...	79	37	93·6	84·7	88·9	+ 1·6	131	+ 20	0	0	2	− 1	0·23	6	− 6	5·5	+0·2	41	1013
4. MIDLAND COUNTIES ...	77	35	91·7	83·9	87·7	+ 1·0	115	+ 12	0	0	5	+ 2	0·69	18	+ 6	3·1	−1·7	23	1012
5. ENGLAND, S.E.	78	41	92·8	85·7	89·1	+ 1·2	133	+ 16	0	0	3	0	0·57	15	0	5·1	−0·6	39	1013
Western.																			
6. SCOTLAND, WEST ...	68	38	90·0	83·5	86·6	+ 1·0	102	+ 12	0	0	5	+ 1	1·49	38	+ 17	5·3	+0·3	40	1008
7. ENGLAND, N.W.	72	38	90·8	84·2	87·3	+ 0·8	111	+ 11	0	0	5	+ 1	0·90	23	+ 7	4·5	−0·6	33	1009
8. ENGLAND, S.W.	71	36	90·9	84·6	87·6	+ 0·4	114	+ 5	0	0	5	+ 1	0·81	21	+ 4	4·4	−0·9	34	1011
9. IRELAND, NORTH ...	71	32	91·1	83·1	86·9	+ 1·1	105	+ 13	0	0	6	+ 2	0·91	23	+ 6	4·8	+0·5	36	1005
10. IRELAND, SOUTH ...	71	40	91·4	83·6	87·3	+ 0·6	111	+ 8	0	0	6	+ 2	1·13	28	+ 11	6·2	+1·3	47	1008
11. ENGLISH CHANNEL ...	77	46	91·9	86·1	88·8	0·0	130	+ 1	0	0	3	0	1·40	35	+ 21	6·3	+0·1	48	1013

THE YEAR 1919.—Aggregates, &c., for the Period of 36 Weeks, December 29th, 1918, to September 6th, 1919.

0. SCOTLAND, NORTH ...	78	11	83·5	77·3	80·3	− 0·6	1475	−145	680	+ 141	152	−14	26·68	680	−135	3·8	+0·2	28	1011
Eastern.																			
1. SCOTLAND, EAST ...	78	5	84·5	76·7	80·4	− 0·8	1662	−160	787	+ 170	126	−16	16·68	429	− 83	4·3	0·0	32	1012
2. ENGLAND, N.E.	84	11	85·5	78·2	81·7	− 0·4	1998	− 77	578	+ 106	130	+ 3	17·21	438	+ 25	4·2	−0·4	32	1013
3. ENGLAND, EAST ...	86	10	86·2	78·4	82·1	− 0·6	2198	−187	580	+ 86	120	− 3	17·23	441	+ 50	4·6	−0·4	35	1014
4. MIDLAND COUNTIES ...	86	9	86·2	78·2	82·1	− 0·4	2220	−119	628	+ 106	121	− 1	20·24	515	+ 74	4·3	−0·2	32	1014
5. ENGLAND, S.E.	86	16	86·7	79·1	82·8	− 0·5	2395	−133	451	+ 72	119	0	19·81	501	+ 77	4·7	−0·5	36	1014
Western.																			
6. SCOTLAND. WEST ...	83	14	85·1	78·1	81·4	− 0·6	1835	−158	539	+ 123	138	−11	25·58	650	−101	4·7	+0·3	35	1013
7. ENGLAND, N.W.	83	16	85·3	78·8	81·9	− 0·6	2022	−140	494	+ 112	127	− 7	20·32	517	− 49	4·4	−0·2	33	1013
8. ENGLAND, S.W.	85	15	86·2	79·3	82·6	− 0·5	2246	−133	409	+ 108	129	− 4	25·21	641	+ 38	5·0	0·0	38	1014
9. IRELAND, NORTH ...	78	22	85·3	78·7	81·9	− 0·5	1923	−141	437	+ 97	155	− 8	21·89	551	− 77	4·2	+0·1	32	1012
10. IRELAND, SOUTH ...	80	22	86·4	79·5	82·8	− 0·4	2262	−121	362	+ 102	148	+ 4	22·66	576	− 78	4·5	0·0	34	1014
11. ENGLISH CHANNEL ...	85	26	86·8	81·3	83·9	− 0·4	2574	−145	137	+ 32	129	− 7	26·58	672	+187	5·5	−0·4	42	1015
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F			inches.	mm.	mm	hr.	hr.	%	h.m

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: September 12th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN

FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 37.

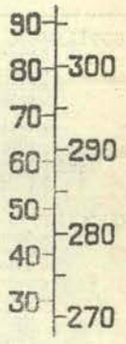
THE THIRTY-SEVENTH WEEK OF 1919.

SUNDAY, SEPTEMBER 7TH, TO SATURDAY, SEPTEMBER 13TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

High pressures prevailed throughout the week over a large area stretching from the Azores to Central Europe and including the United Kingdom. Small changes in the distribution of pressure were associated with great variations in the amount of cloud, and temperature fluctuated through a large range. During the greater part of the week the weather over England was unusally fine and bright, and on Thursday, when there was very little air movement, exceptionally high temperatures were recorded. There were thunderstorms on Friday over the south of Scotland and north of England. The mean temperature for the week was above the normal in all Districts, the excess in most parts of Engl nd being between 2 a. and 3 a. The highest temperatures, which were also in most Districts the highest for the year, occurred generally on the 11th; at Raunds (Northants) the thermometer rose to 305 a. and at some stations in England E. and the London District to 304 a. The dull weather and fog of Friday and Saturday had a remarkable effect on the temperature, the drop in the maximum between Thursday and Friday at some stations over northern and eastern England being as large as 16 a. (nearly 30° F.). In the south the change was spread over two or three days. In Scotland E. the rainfall was slightly more than the normal, elsewhere there was a deficit. Amounts of 20mm. and more fell over the west of Scotland on the 8th and over the south of Scotland and north of England on the 12th or 13th. Bright sunshine was deficient in Scotland W. and Ireland S., in excess in all other Districts; in England E. and S.E. it was 2½ hours per day more than the normal. A good deal of fog was reported. Faint Auroral displays were witnessed at Edinburgh on the 9th and at Aberdeen on the 10th and 13th, while solar halos were observed at Oxford and Ross-on-Wye on th 8th and again at Ross-on-Wye on the 10th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E. Shoeburyness.†		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	20	4·2	18	3·3	12	1·8	6	2·1	15	4·2	13	2·2	11	3·8	12	4·0
North	1	1·9	4	2·1	5	2·3	6	1·9	11	4·6	11	3·3	12	7·1	15	5·2
West	24	5·0	20	4·9	14	2·1	11	1·7	17	2·8	10	1·8	8	4·2	8	1·6
East	1	1·6	4	1·5	6	1·9	4	2·5	9	8·3	12	3·8	13	3·2	18	2·6
Calm	1	—	4	—	8	—	13	—	2	—	0	—	4	—	1	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Unusual	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Unusual	Unusual	Very unusual	Unusual	Unusual	Very unusual
	Rainfall ...	Moderate	Moderate	Moderate	Light	Moderate	Nought	Moderate	Light	Light	Moderate	Light	Light
	Sunshine ...	Abundant	Abundant	Abundant	Abundant	Abundant	Very abundant	Scanty	Abundant	Abundant	Abundant	Moderate	Abundant

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

AUTUMN. 2 weeks from August 31st, 1919.	Warmth ...	1, 1, 0	2, 0, 0	2, 0, 0	2, 0, 0	2, 0, 0	2, 0, 0	2, 0, 0	2, 0, 0	1, 1, 0	2, 0, 0	2, 0, 0	1, 1, 0
	Rainfall ...	0, 2 0	0, 2, 0	1, 1, 0	0, 1, 1	0, 2, 0	0, 1, 1	1, 1, 0	0, 1, 1	0, 1, 1	0, 2 0	1, 0, 1	1, 0, 1
	Sunshine ...	2, 0, 0	2, 0, 0	1, 0, 1	1, 1, 0	1, 0, 1	1, 1, 0	1, 0, 1	1, 1, 0	1, 0, 1	2 0, 0	1, 1 0	1, 1, 0

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(15162—19.) Wt. 162—833/512. 625. 9/19. D & S. G. 1"/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

['TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft	
						Of Daily Max.	Of Daily Min.	Daily Mean.										Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F	°F.
0. SCOTLAND, N.																							
a, Islands .. *a* Lerwick	54	61	10th	44	13th	57·1	50·0	53·4	+ 2·3	5	0·98	25	+ 8										
a Houton Bay, Orkney	520	64	10th	45	13th	56·1	48·7	52 2	—	—	—	—	—	Houton Bay ..	—	—	—	•	•	•	•	•	•
a Stornoway	31	61	10th	45	13th	58·6	51·1	54·7	+ 2·3	5	0·31	8	- 14	Stornoway ..	4·6	+ 0·3	35	•	•	•	•	•	•
a Castlebay, Barra I. ..	37	61	10th	46	13th	57·9	52·3	55·0	—	5	0·28	7	—	Castlebay ..	4·5	—	35	•	•	•	•	•	•
b, Main-land. *a* Wick	81	66	10th	39	13th	60·1	47·9	53·7	+ 1·4	2	0·28	7	- 7										
a Strathpeffer	125	69	11th	39	13th	63·6	47·7	55·3	+ 2·2	2	0·23	6	- 6										
p Glencarron	500	—	—	—	—	—	—	—	—	—	—	—	—										
a Fort Augustus.. ..	68	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William	171	65	9, 10	43	12, 13	61·9	50·0	55·7	+ 1·8	5	1·26	32	- 3										
1. SCOTLAND, E.																							
a Nairn	82	70	9th	40	13th	64·0	49·6	56·5	+ 3·5	3	0·29	7	- 5	Nairn	6·0	—	46	•	•	•	•	•	•
p Gordon Castle	101	75	10th	37	13th	64·4	48·6	56·1	+ 2·6	1	0·16	4	- 9	Gordon Castle..	5·8	—	45	•	•	•	•	•	•
a Aberdeen	46	73	10th	42	13th	65·6	51·4	58·2	+ 4·8	2	0·09	2	- 10	Aberdeen ..	5·7	+ 1·4	44	0	37	•	•	53·2	+0·2
a Balmoral	930	70	10th	33	13th	62·4	46·7	54·2	+ 4·0	2	0·13	3	- 9	Balmoral ..	•	•	•	•	30	•	•	•	•
p Crieff	432	66	10, 11	40	13th	62·1	47·3	54·3	+ 0·4	3	0·08	2	- 13	Crathes	5·2	+ 1·2	40	1	27	56·2	+1·8	53·9	-0·4
a Dundee	244	68	9th	45	12, 13	63·6	50·0	56·5	+ 2·6	1	0·15	4	- 7	Dundee	4·5	—	35	0	42	57·0	•	•	•
a Leith	30	71	10th	48	13th	63·1	53·1	57·9	+ 2·8	2	1·14	29	+ 20	Leith	•	•	•	0	46	•	•	•	•
p Edinburgh	441	70	10, 11	46	13th	62 4	51·7	56·8	+ 3·1	3	1·55	39	+ 29	Edinburgh ..	3·7	+ 0·5	29	0	37	•	•	•	•
a West Linton	769	66	10, 11	43	13th	60·9	49·4	54·9	+ 4·5	5	1·54	39	—	West Linton ..	3·4	—	26	0	38	•	•	•	•
p Marchmont	498	74	11th	43	13th	63·3	49·3	56·0	+ 3·1	3	0·56	14	+ 1	Marchmont .	4·2	0·0	33	•	•	•	•	•	•
6. *a*, SCOTLAND, W																							
a Ford (Argyll)	149	65	10th	42	13th	60·8	50·2	55·3	—	4	1·25	32	—	Ford (Argyll) ..	•	•	•	0	35	57·6	—	55·6	—
p Glasgow Observatory	180	67	10th	46	13th	60·4	51·6	55·8	+ 2·2	2	0·14	4	- 10	Glasgow.. ..	2·4	- 1·3	19	0	42	•	•	•	•
p Rothesay	200	71	8th	46	12, 13	61·1	49·6	55·1	+ 1·0	3	0·19	5	- 14	Rothesay ..	2·7	—	21	0	42	56·7	—	54·9	+0·5
a Kilmarnock	90	70	10th	46	13th	61·7	52·0	56·6	+ 3·6	3	0·77	20	+ 5	Kilmarnock ..	2·6	—	20	•	•	56·5	—	54·1	—
a Colmonell	170	73	9th	46	13th	62·7	51·4	56·8	+ 3·1	2	1·38	35	+ 19	Colmonell ..	•	•	•	0	43	•	•	•	•
p Cally, Gatehouse ..	120	69	11th	46	8, 12, 13	62·7	50·9	56·5	+ 3·7	3	0·11	3	- 14	Dumfries ..	3·0	—	23	0	40	57·5	+1·4	55·1	-2·4
p Dumfries	160	71	11th	46	12, 13	62·1	51·0	56·3	+ 2·0	2	0·27	7	- 5	Eskdalemuir ..	2·8	—	22	0	40	•	•	•	•
a Eskdalemuir	794	68	11th	43	13th	59·3	48·3	53·5	—	4	0·51	14	—										
b, I. OF MAN *p* Douglas	277	70	11th	47	8th	61·3	51·4	56·1	+ 1·5	3	0·60	15	0	Douglas	4·4	- 1·0	34	0	43	•	•	•	•
2. ENGLAND, N.E																							
a Alnwick Castle ..	210	78	11th	47	8, 13	65·3	51·0	57·8	+ 4·1	2	0·65	16	+ 6										
a Tynemouth	118	81	11th	49	8th	67·4	52·9	59·8	+ 5·4	2	0·28	7	- 1	Cockle Park ..	4·8	+ 0·1	37	0	40	55·9	+3·3	54·5	+1·0
p Durham	336	80	11th	44	8th	68·0	51·1	59·1	+ 5·0	3	0·30	8	+ 1	Durham ..	5·1	+ 0·8	40	0	34	•	•	•	•
a North .. *p* Rounton	249	80	11th	44	8th	68·3	51·3	59·4	+ 5·7	3	0·11	3	- 5	Rounton ..	•	•	•	0	32	58·4	•	•	•
a West Witton	605	79	11th	42	8th	66·1	51·4	58·4	—	2	0·21	5	—	West Witton ..	•	•	•	0	41	56·9	—	53·3	—
p Scarborough	100	76	11th	49	8th	68·9	55·1	61·7	+ 5·7	0	0·00	0	- 8	Scarborough† ..	6·8	+ 1·9	53	•	•	•	•	57·5	—
p York	56	83	11th	45	8th	71·7	52·7	61·7	+ 6·0	0	0·00	0	- 7	York	5·3	+ 0·9	41	—	—	59·1	+2·3	56·8	+0·2
a Spurn Head	26	76	10th	51	8th	67 4	53·6	60·2	+ 3·4	3	0·29	7	+ 1	Spurn Head ..	•	•	•	•	•	•	•	•	•
b, South .. *a* Lincoln	58	81	11th	44	8th	69·6	52·0	60·4	+ 4·0	1	0·17	4	- 3	Lincoln	•	•	•	0	43	60·1	+3·1	57 5	+0·4
a Fulbeck	180	85	11th	42	8th	69·9	51·3	60·2	+ 3·8	1	0·25	6	- 1	Fulbeck ..	6·4	+ 1·1	50	•	•	—	—	—	—
														Skegness ..	6·8	+ 1·2	53	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	87	11th	50	8th	71·6	53·9	62·3	+ 4·7	2	0·03	1	- 7	Cromer	7·1	+ 1·7	55	•	•	•	•	•	•
a Little Massingham ..	280	85	11th	44	8th	71·0	51·4	60·7	+ 4·3	2	0·04	1	- 9	Lit. Massingham	7·0	+ 1·9	54	•	•	•	•	•	•
a Yarmouth	13	80	10th	51	7, 8	72·3	55·3	63·4	+ 6·0	0	0·00	0	- 9	Yarmouth ..	8·7	—	68	0	51	61·9	+2·4	58·9	-1·0
a Norwich	93	87	11th	49	8th	73·9	53·9	63·4	+ 6·4	0	0·00	0	- 10	Norwich ..	8·7	—	68	0	46	61·4	•	•	•
a Geldeston	37	88	11th	47	11th	76·1	50·0	62·4	+ 5·3	0	0·00	0	- 9	Geldeston ..	8·9	+ 3·4	70	•	•	•	•	•	•
p Cambridge	41	88	11th	46	7, 8	75·1	50·3	62·1	+ 5 0	0	0·00	0	- 8	Cambridge ..	7·6	+ 2·2	60	0	40	62·4	+4·1	59·5	+0·6
a Clacton-on-Sea ..	54	74	12th	52	7th	70·0	56·6	63·0	+ 5·1	1	0·01	0·3	- 8	Clacton	8·3	+ 2·1	65	0	49	63·5	+4·8	60·4	+1·3
a Rothamsted	424	83	11th	48	7, 9	72·4	51·6	61·5	+ 5·5	1	0·01	0	- 9	Rothamsted ..	7·6	+ 2·2	60	0	43	60·4	•	•	•
p Tottenham	51	87	11th	49	7th	76·3	55 1	65·2	—	0	0·00	0	—	Tottenham ..	7·5	—	59	0	49	•	•	63·6	+3·0
														S'thend-on-Sea	7·5	—	59	0	51	66·7	+6·0	—	—
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	81	11th	44	8th	66·3	52·0	58·8	+ 4·5	2	0·10	3	- 5	Harrogate ..	5·7	+ 1·0	44	0	38	56·6	+2·2	55·3	+0·6
p Sheffield	429	83	11th	45	8th	70·1	52·4	60·8	—	2	1·23	31	—	Sheffield.. ..	6·0	+ 1·7	47	0	37	58·5	+2·8	55·4	0·0
p Buxton	987	81	11th	41	8th	65·3	49·9	57·2	—	2	1·06	27	+ 13	Buxton	5·8	—	45	0	37	57·3	+2·5	55·0	+0·1
b, East .. *a* Bawtry	65	84	11th	41	8th	69·7	50·9	59·9	+ 4·2	2	0·79	20	+ 14	Worksop ..	5·6	+ 1·3	43	0	34	59·3	—	56·4	—
a Nottingham	82	85	11th	42	8th	69·3	48 3	58·3	+ 2·3	1	0·08	2	- 5	Nottingham ..	5·2	+ 0·7	40	0	37	58·1	+2·1	57·9	+0·4
p Birmingham, Edgbsn.	535	83	11th	47	8th	70·1	52·0	60·6	+ 4·6	2	0·19	5	- 3	Birmingham ..	6·5	+ 2·6	51	0	35	56·6	+2·9	53·6	0·0
a Raunds	203	90	11th	44	8th	72·3	50·1	60·7	+ 3·7	2	0·05	1	- 5	Raunds	6·4	—	50	0	35	61·4	—	57·0	—
p Oxford	208	86	11th	50	7, 11	72·3	52·0	61·7	+ 4·8	2	0·03	1	- 6	Oxford	6·9	+ 1·7	54	0	43	•	•	•	•
c, West .. *a* Cheadle (N. Staffs.) ..	646	81	11th	43	8th	69·3	50·3	59·3	+ 4·6	1	0·69	18	+ 8	Cheadle	•	•	•	0	42	•	•	•	•
p Tenbury	313	83	11th	43	8th	70·7	49·6	59·7	+ 4·3	2	0·55	14	+ 8	Tenbury	•	•	•	0	40	59·5	—	—	—
p Ross-on-Wye	201	85	11th	47	9th	71·6	50·9	60·8	+ 4·7	2	0·04	1	- 6	Ross-on-Wye ..	6·3	—	50	0	45	—	—	—	—
a Clifton	229	85	11th	51	9th	72·3	55·1	63·3	+ 5·1	1	0·01	0·3	- 13	Clifton	6·1	—	48	0	51	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	83	11th	44	7th	72·3	48·1	59·6	+ 4·8	2	0·02	1	- 7	Worthing	10·1	+ 3·9	80	0	46	64·1	+4·5	60·3	+0·4
p Salisbury (Wilton) ..	180	83	11th	45	7th	74·3	51·3	62 3	+ 5·8	0	0·00	0	- 8	Marlborough ..	7·3	+ 2.5	57	0	39	59·3	—	57·0	—
a Wisley, Surrey ..	150	85	11th	48	10, 11	76·0	51·4	63·1	+ 6·4	1	0·01	0·3	- 8	Salisbury	•	•	•	0	42	63·6	•	•	•
a Tunbridge Wells ..	354	83	11th	46	10th	76·3	53 0	64·1	+ 7·0	0	0·00	0	- 9	Wisley	7·9	+ 2·5	62	0	37	62·0	+3·9	58·7	+0·1
a Margate	51	85	11th	54	10th	74·9	59·0	66·6	+ 7·4	0	0·00	0	- 8	Tunbridge Wells	8·3	+ 2·5	65	0	39	62·4	+3·8	59·4	—
														Margate	8·3	+ 2·6	65	0	47	66·1	+7·4	62·9	+4·1
a Dungeness	21	75	10–12	49	7th	71·1	54·7	62·5	+ 3·9	0	0·00	0	- 8	Folkestone ..	8·4	—	66	•	•	•	•	56·4	—
p St. Leonards	178	76	10, 11	52	7th	72·1	57·0	64·2	+ 5·5	1	0·03	1	- 8	St. Leonards ..	9·7	+ 3·6	76	0	48	64·3	—	60·5	—
p Southampton	64	79	11th	49	7th	73·4	54·1	63·3	+ 4·6	0	0·00	0	- 9	Southampton ..	7·9	+ 2·1	62	0	40	•	•	•	•
a Ventnor	59	76	11th	52	10th	69·4	56·6	62·7	+ 2·9	0	0·00	0	- 10	Ventnor	8·6	+ 2·7	68	•	•	•	•	•	•
LONDON. *a* Richmond (Kew Obs.)	18	83	11th	51	7, 10	74·2	53·2	63·2	+ 5·8	0	0·01	0·2	- 7	Richmond ..	7·7	+ 2·6	61	0	40	63·3	+5·5	58·5	+0·7
a Westminster	27	87	11th	52	7th	77·2	56·0	66·1	+ 7·5	0	0·00	0	- 7	Westminster ..	7·9	+ 3 4	62	0	44	•	•	•	•
ag Greenwich	149	87	11th	50	7, 10	78·7	53·7	65·6	+ 7·4	1	0·01	0	- 11	Greenwich ..	8·5	+ 3·1	67	0	35	•	•	•	•
a Hampstead	450	85	11th	51	7th	75·0	55·1	64·6	—	1	0·01	0	—	Hampstead ..	7·9	—	62	0	41	•	•	•	•
ag Camden Square ..	110	88	11th	51	7th	78·6	54·7	66·1	+ 7·2	0	0·00	0	- 7	Camden Square	7·2	+ 2·8	57	0	48	•	•	•	•
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	71	11th	46	8, 13	62·0	50·4	55·9	+ 1·4	2	0·33	8	- 8	Aspatria.. ..	5·3	+ 0·4	41	0	44	56·6	+1·1	54·6	-0·5
p Newton Rigg	559	76	11th	45	8th	65·4	51·4	58·1	+ 4·8	2	0·33	8	- 5	Newton Rigg ..	5·1	+ 0·5	40	0	37	57·8	+2·3	55·1	+0·2
p Stonyhurst	375	76	11th	44	8th	66·3	53 1	59·4	+ 4·8	3	0·04	1	— 18	Stonyhurst ..	4·7	+ 0·2	36	0	39	•	•	•	•
p Blackpool	66	79	11th	44	8th	66·0	53·6	59·5	+ 3·6	2	0·03	1	- 13	Blackpool ..	5·4	+ 0·3	42	0	35	58·4	—	55·4	—
a Southport	37	77	11th	45	8th	64·4	53·0	58·4	+ 2·6	3	0·07	2	- 12	Southport ..	5·8	+ 0·8	45	0	39	60·3	+2·9	59·0	+0·4
														Hoylake ..	6·2	+ 1·4	48	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	78	11th	47	8th	66·1	51·3	58·3	+ 1·9	2	0·12	3	- 9	Liverpool ..	6·0	—	47	0	39	•	•	•	•
a Hawarden Bridge ..	22	82	11th	42	8th	69·0	52·3	60·3	+ 3·8	2	0·05	1	- 8	Manchester (City)	4·3	+ 0·5	33	0	40	59·0	+2·4	59·2	+0·8
p Manchester (Whit. Pk.)	125	84	11th	44	8th	71·0	52·7	61·4	+ 4·8	0	0·00	0	- 12	Whitworth Park	4·6	+ 0·8	36	•	•	•	•	•	•
b NORTH WALES.																							
p Llandudno	16	78	11th	44	8th	66·6	51·4	58·6	+ 1·3	3	0·12	3	- 8	Llandudno ..	5·2	0·0	40	•	•	•	•	•	•
a Holyhead	15	72	11th	48	8th	63·7	54·0	58·6	+ 1·8	3	0·15	4	- 9	Holyhead ..	4·8	—	37	0	40	•	•	•	•
a Beddgelert	309	76	11th	41	8th	64·0	51·7	57·6	+ 2·6	2	0·07	2	—	Aberdovey ..	—	—	—	•	•	•	•	•	•
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.	
						Of Daily Max.	Of Daily Min.	Daily Mean.										Ground Frosts.	Lowest Reading.	Mean.	Deviation from average	Mean.	Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
8. *a*, SOUTH WALES.†																							
a Aberystwyth	59	80	11th	47	8th	67·0	54·6	60·5	—	2	0·07	2	—	Aberystwyth ..	5·8	+ 0·4	46	*	*	*	*	*	*
a Rhayader	757	81	11th	39	8th	67·0	47·3	56·7	—	4	0·40	10	—	Rhayader ..	5·3	—	42	0	33	*	*	*	*
a St. Ann's Head ..	149	73	11th	51	8th	65·3	55·6	60·2	+ 3·1	6	0·22	6	- 6	St. Ann's Head ..	5·9	+ 0·5	46	*	*	*	*	*	*
p Cardiff	202	82	11th	51	9th	70·0	53·9	61·6	+ 5·3	0	0·00	0	- 14	Cardiff	6·2	—	49	0	48	61·5	+3·9	58·5	+0·3
b, ENGLAND, S.W.																							
a Bath	66	86	11th	47	10th	74·1	52·6	62·8	+ 6·0	0	0·00	0	- 9	Bath	*	*	*	*	*	62·6	+2·6	60·6	+0·2
a Shaftesbury	722	80	11th	49	7th	70·9	54·7	62·4	+ 6·2	0	0·00	0	- 11	Shaftesbury ..	*	*	*	*	*	62·2	—	59·0	—
a Arlington	613	82	11th	47	9th	69·1	52·5	60·4	+ 4·8	3	0·21	5	- 13										
a Newquay	190	77	11th	48	9th	68·0	51·6	61·0	+ 2·9	3	0·08	2	- 10	Newquay ..	6·5	+ 0·7	51	*	*	63·1	—	60·1	—
a Cullompton	202	81	11th	47	7, 9, 11	73·1	51·1	61·6	+ 5·1	2	0·03	1	- 9	Cullompton ..	6·3	+ 1·1	50	0	44	61·6	*	*	*
a Portland Bill	19	69	11th	52	10th	65·9	57·0	61·2	+ 2·4	0	0·00	0	- 8	Weymouth ..	6·4	—	50	*	*	*	*	*	*
p Plymouth	116	83	11th	49	9th	70·9	54·6	62·4	+ 4·4	2	0·03	1	- 10	Plymouth ..	6·7	+ 1·0	53	0	44	62·5	+3·2	59·9	—
a Falmouth	167	73	11th	51	9th	67·1	51·7	60·6	+ 2·9	1	0·04	1	- 12	Falmouth ..	5·4	- 0·4	43	0	45	63·7	—	62·4	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	70	10th	51	13th	63·9	53·0	58·2	+ 3·0	3	0·28	7	- 4	Malin Head ..	6·2	—	48	*	*	*	*	*	*
a Blacksod Point ..	37	69	10th	50	13th	61·4	53·3	57·2	+ 1·2	5	0·41	10	- 8	Markree Castle ..	5·0	+ 1·2	39	0	33	59·7	+2·0	57·1	+0·4
p Markree Castle ..	122	75	10th	42	13th	66·0	49·6	57·4	+ 3·4	1	0·15	4	- 12										
b, East .. { *p* Armagh	196	73	10th	46	12th	64·3	50·1	56·9	+ 2·5	3	1·41	36	+ 24	Armagh	4·6	+ 0·5	36	0	41	58·4	+1·6	56·5	-0·1
a Donaghadee	39	73	9th	50	13th	64·0	53·7	58·6	+ 3·4	2	0·83	21	+ 10										
10. IRELAND, S.																							
p Dublin, City	47	72	10th	49	8th	65·6	53·4	59·2	+ 3·1	3	0·20	5	- 4	Trinity Coll. ..	*	*	*	—	—	—	—	—	—
a Birr Castle	175	74	10th	46	8th	63·6	50·3	56·6	+ 2·1	1	0·04	1	- 10	Phœnix Park ..	4·6	- 0·3	36	1	28	*	*	*	*
a Kilkenny	195	71	8, 11	44	8th	65·1	51·3	57·9	+ 2·9	0	0·00	0	- 11	Dublin City ..	*	*	*	0	45	*	*	*	*
a Waterford	137	73	11th	50	13th	64·4	54·3	59·1	+ 3·1	0	0·00	0	- 13	Birr Castle ..	3·8	- 0·6	29	0	40	*	*	*	*
p Seskin, Carrick-on-Suir	535	73	11th	47	13th	64·4	50·9	57·3	—	0	0·02‖	1	—	Seskin	4·4	—	35	0	39	*	*	*	*
a Cahir	198	72	10th	43	8th	65·3	50·7	57·7	+ 2·4	0	0·00	0	—										
a Foynes	50	75	10th	46	13th	64·9	52·4	58·4	+ 2·6	1	0·39	10	- 7										
a Cahirciveen (Val. Obs.)	30	72	10th	47	8th	63·3	52·4	57·6	+ 1·0	2	0·31	8	- 11	Cahirciveen ..	5·1	+ 0·4	40	0	44	*	*	*	*
a Killarney	174	78	10th	42	13th	66·6	52·8	59·4	+ 3·0	1	0·13	3	- 14	Ballinacurra ..	3·9	- 0·7	31	*	*	*	*	*	*
a Roche's Point	32	68	7th	50	8th	63·1	54·3	58·5	+ 1·8	4	0·05	1	- 13										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	71	11th	55	8th	67·3	57·1	62·0	+ 3·2	2	0·05	1	- 10	Scilly	6·2	+ 0·1	49	*	*	*	*	*	*
a Jersey, St. Aubins ..	25	83	10th	52	7, 8	74·0	56·6	64·9	+ 4·5	0	0·00	0	- 11	St. Heliers ..	9·8	+ 3·1	77	*	*	*	*	*	*
a Guernsey (Villa Carey)	180	81	11th	52	9th	71·6	57·1	64·0	+ 3·5	0	0·00	0	- 12	Guernsey† ..	8·1	+ 1·4	64	0	43	63·9	+2·4	61·3	-0·2

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn. ‖ Dew.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, September 13th, 1919.

DISTRICT AND STATION.	Height.			Distribution of Wind.†								Extreme Velocities.							
				More than 17 m/s or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.			
	Above Mean Sea Level	Above Ground.	Above Building.	Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Veer from N.	Speed.	Mid Time.		Speed.	Date		
														day.	hr.		d.	h.	m.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.			m/s.			
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	7 to 9	16	71	78	3	0	247	13	7	14	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	—	88	80	0	293	5	7	10	14	7	10	25
Aberdeen	153	105	52	—	—	7	1	19	79	69	0	281	12	7	10	19	7	9	35
Edinburgh	485	39	31	—	—	—	—	78	60	39	0	214	10	8	16	17	8	16	50
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	10	1	83	80	4	0	220	11	10	8	17	7	9	45
Paisley	188	81	15	—	—	—	—	14	108	46	0	259	9	8	21	18	8	23	10
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	—	75	93	0	337	5	11	19	12	8	17	15
South Shields	72	61	12	—	—	—	—	29	121	18	0	281	9	9	12	13	8	17	0
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Yarmouth (Cup Anr.) ..	73	60	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gorleston	52	42	‡	—	—	—	—	55	113	0	0	—	9	11	13	12	13	18	15
Shoeburyness	103	90	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4. MIDLAND COUNTIES																			
Benson	270	84	‡	—	—	—	—	1	92	75	0	23	6	13	18	11	13	18	5
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	9	62	97	0	—	8	13	23	12	13	23	25
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument out of adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	25	114	28	1	34	9	13	18	11	13	18	5
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	—	81	85	2	68	4	13	21	8	13	20	50
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	—	60	108	0	247	5	7	13	8	7	13	20
Fleetwood (Cup Anr.) ..	109	44	—	—	—	7	4	67	92	5	0	304	12	7	14	—	—	—	—
Southport	80	62	48	—	—	—	—	82	77	9	0	315	10	7	12	17	12	5	30
Holyhead	60	40	‡	—	—	11 to 13	31	80	46	11	0	34	13	12	4	17	12	22	30
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	—	—	10	117	41	0	225	8	7	11	10	7	13	40
Plymouth	185	88	2	—	—	—	—	—	91	77	0	—	5	7	15	8	7	15	5
Lyme Regis	556	61	†	—	—	—	—	—	15	153	0	—	5	7	2	7	13	18	25
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	12, 13	18	63	62	25	0	11	14	12	9	—	—	—	—
Quilty	100	40	‡	—	—	10	1	76	83	8	0	—	11	10	14	16	10	14	45
Cahirciveen (Val. Obs.)	98	41	‡	—	—	—	—	98	58	6	6	20	10	11	16	17	11	21	0
Weaver Pt.	160	30	‡	—	—	12	2	61	87	8	10	—	12	12	16	16	12	16	10
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	28	92	48	0	360	8	12	19	12	12	18	15

† More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.] * Above tops of trees.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

THIRTY-SEVENTH WEEK of 1919—September 7th to September 13th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Mean Pressure at M.S.L.
	At any "D.-V." Station.		Means of				Accumulated Number of Day-Degrees.												
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	69	39	88·7	82·6	85·6	+ 1·2	88	+ 15	0	0	4	0	0·61	15	− 6	4·6	+0·3	35	1018
Eastern.																			
1. SCOTLAND, EAST ...	75	33	90·3	82·7	86·3	+ 1·6	98	+ 20	0	0	3	0	0·50	13	+ 1	4·9	+0·6	38	1020
2. ENGLAND, N.E.	85	42	93·3	84·3	88·6	+ 2·8	126	+ 34	0	0	2	0	0·23	6	− 1	5·9	+0·9	46	1022
3. ENGLAND, EAST ...	88	44	95·9	84·7	90·1	+ 3·3	145	+ 41	0	0	1	− 1	0·01	0	− 9	7·8	+2·4	62	1022
4. MIDLAND COUNTIES ...	90	41	94·3	83·6	88·7	+ 2·5	128	+ 32	0	0	2	0	0·25	6	− 2	6·0	+1·3	47	1023
5. ENGLAND, S.E.	85	44	96·0	85·1	90·3	+ 2·9	148	+ 37	0	0	0	− 2	0·00	0	− 8	8·4	+2·7	66	1023
Western.																			
6. SCOTLAND, WEST ...	73	42	89·4	83·6	86·4	+ 1·2	99	+ 15	0	0	3	0	0·59	15	− 2	3·4	−1·2	26	1022
7. ENGLAND, N.W.	84	42	91·9	84·2	87·9	+ 1·7	118	+ 23	0	0	2	− 1	0·13	3	− 10	5·4	+0·6	41	1022
8. ENGLAND, S.W.	86	39	93·7	84·9	89·1	+ 2·3	133	+ 29	0	0	2	− 1	0·09	2	− 10	6·0	+0 7	47	1023
9. IRELAND, NORTH ...	75	42	90·7	83·9	87·2	+ 1·6	109	+ 20	0	0	3	− 1	0·52	13	− 1	4·8	+0 8	37	1022
10. IRELAND, SOUTH ...	75	42	91·2	84·3	87·6	+ 1·4	114	+ 17	0	0	2	− 1	0·12	3	− 10	4·4	−0·3	34	1023
11. ENGLISH CHANNEL ...	83	52	94·7	86·8	90·6	+ 2·2	151	+ 27	0	0	1	− 2	0·01	0	− 11	8·0	+1·4	63	1023

THE SEASON (Autumn).—Aggregates, &c., for the Period of 2 Weeks, August 31st to September 13th, 1919.

0. SCOTLAND, NORTH ...	71	39	88·7	82·5	85·5	+ 0·9	174	+ 23	0	0	9	0	1·29	32	−12	4·6	+0·7	34	1012
Eastern.																			
1. SCOTLAND, EAST ...	75	33	90·7	82·4	86·3	+ 1·4	196	+ 34	0	0	7	0	0 92	24	+ 1	5·1	+0·6	39	1013
2. ENGLAND, N.E.	85	36	92·6	84·2	88·2	+ 2·1	243	+ 53	0	0	6	− 1	0·84	22	+ 4	4·7	−0·3	36	1016
3. ENGLAND, EAST ...	88	37	94·8	84·7	89·5	+ 2·4	276	+ 61	0	0	3	− 2	0·24	6	− 15	6·7	+1·3	51	1018
4. MIDLAND COUNTIES ...	90	35	93·0	83·8	88·2	+ 1·7	243	+ 44	0	0	7	+ 2	0·94	24	+ 4	4·6	−0·2	35	1018
5. ENGLAND, S.E.	85	41	94·4	85·4	89·7	+ 2·0	281	+ 53	0	0	3	− 2	0·57	15	− 8	6·8	+1·1	52	1018
Western.																			
6. SCOTLAND, WEST ...	73	38	89·7	83·6	86·5	+ 1·1	201	+ 27	0	0	8	+ 1	2·08	53	+ 15	4·4	−0 4	33	1015
7. ENGLAND, N.W.	84	38	91·4	84·2	87·6	+ 1·2	229	+ 34	0	0	7	0	1·03	26	− 3	4·9	0·0	38	1016
8. ENGLAND, S.W.	86	36	92·3	84·8	88·4	+ 1·4	247	+ 34	0	0	7	0	0·90	23	− 6	5·2	−0·1	40	1017
9. IRELAND, NORTH ...	75	32	90·9	83·5	87·1	+ 1·4	214	+ 33	0	0	9	+ 1	1·43	36	+ 5	4·8	+0·6	37	1014
10. IRELAND, SOUTH ...	75	40	91·3	84·0	87·5	+ 1·0	225	+ 25	0	0	8	+ 1	1·25	31	+ 1	5 3	+0·5	40	1016
11. ENGLISH CHANNEL ...	83	46	93·3	86·5	89·7	+ 1·1	281	+ 28	0	0	4	− 2	1·41	35	+ 10	7·2	+0·8	55	1018

THE YEAR 1919.—Aggregates, &c., for the Period of 37 Weeks, December 29th, 1918, to September 13th, 1919.

0. SCOTLAND, NORTH ...	78	11	83·6	77·5	80·4	− 0·6	1563	−130	680	+ 141	156	−14	27·29	695	−141	3·8	+0·2	28	1011
Eastern.																			
1. SCOTLAND, EAST ...	78	5	84·6	76·9	80·6	− 0·7	1760	−140	787	+ 170	129	−16	17·18	442	− 82	4·4	+0·1	33	1012
2. ENGLAND, N.E.	85	11	85·7	78·4	81·9	− 0·3	2124	− 43	578	+ 106	132	+ 3	17·44	444	+ 24	4·2	−0·4	32	1013
3. ENGLAND, EAST ...	88	10	86·5	78·5	82·3	− 0·5	2343	−146	580	+ 86	121	− 4	17·24	441	+ 41	4·7	−0·3	36	1014
4. MIDLAND COUNTIES ...	90	9	86·4	78·3	82·3	− 0·3	2348	− 87	628	+ 106	123	− 1	20·49	521	+ 72	4·3	−0·2	33	1014
5. ENGLAND, S.E.	86	16	87·0	79·3	83·0	− 0·4	2543	− 96	451	+ 72	119	− 2	19·81	501	+ 69	4·8	−0·4	37	1014
Western.																			
6. SCOTLAND, WEST ...	83	14	85·2	78·2	81·6	− 0·5	1934	−143	539	+ 123	141	−11	26·17	665	−103	4·6	+0·2	35	1013
7. ENGLAND, N.W.	84	16	85·5	79·0	82·1	− 0·5	2140	−117	494	+ 112	129	− 8	20·45	520	− 59	4·4	−0·2	33	1013
8. ENGLAND, S.W.	86	15	86·4	79·5	82·8	− 0·4	2379	−104	409	+ 108	131	− 5	25·30	643	+ 28	5 1	+0·1	39	1015
9. IRELAND, NORTH ...	78	22	85·4	78·8	82·0	− 0·4	2032	−121	437	+ 97	158	− 9	22·41	564	− 78	4·2	+0·2	32	1012
10. IRELAND, SOUTH ...	80	22	86·6	79·6	82·9	− 0·4	2376	−104	362	+ 102	150	+ 3	22·78	579	− 88	4·5	0·0	34	1014
11. ENGLISH CHANNEL ...	85	26	87·0	81·5	84·1	− 0·3	2725	−118	137	+ 32	130	− 9	26·59	672	+176	5·6	−0·4	43	1016
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm	mm	hr	hr.	%	h.m

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: September 19th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN

FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 38.

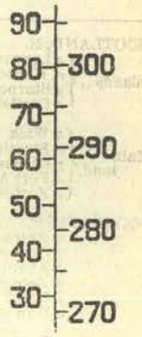
THE THIRTY-EIGHTH WEEK OF 1919.

SUNDAY, SEPTEMBER 14TH, TO SATURDAY, SEPTEMBER 20TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

During the greater part of the week the weather was dominated by a large anticyclone, the highest pressure being situated directly over our Islands. On Friday, however, a depression over the north of Scotland moved eastward, and unsettled, showery conditions prevailed, with strong north-westerly winds or gales, and a decided fall of temperature. Thunderstorms had occurred on Sunday in London and also at South Farnborough and Sheffield. Mean temperature was below the normal in all Districts, excepting the English Channel. This was due to the sudden change at the end of the week, when the fall in the maxima between Thursday and Friday exceeded 8 a (15° F.). The highest maxima, about 297 a, were recorded on the 18th. Screen minima included some very low readings for the time of year, the lowest being 270 a at Balmoral and West Linton, and 272 a at several stations in the east and south-east of England. Ground frost occurred at most stations, the lowest being 265 a at Rounton. Rainfall was below the normal in all districts excepting Scotland N. and E. Snow fell on the 19th or 20th in many parts of Scotland and the north of England and also at Armagh. Hail was also reported in many places. Bright sunshine exceeded the normal in Scotland, Ireland, and England N.W., but was below in other Districts. An aurora was seen on the 19th or 20th at many of the northern stations and also as far south as Oxford and West Lavington (Wilts). A solar halo, with parhelia, was observed at Oxford on the 20th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E. Shoeburyness.†		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	15	2·6	16	3·1	5	2·3	2	3·2	7	2·7	9	2·6	6	2·8	2	2·6
North	10	5·1	6	6·4	16	3·9	18	2·3	16	7·1	16	7·1	10	5·3	16	6·8
West	25	3·5	21	5·1	13	3·6	10	3·0	17	5·5	10	4·2	13	8·3	11	3·5
East	1	1·1	1	0·8	11	2·8	12	2·5	8	5·4	17	5·6	9	3·4	5	1·7
Calm	1	—	6	—	4	—	6	—	3	—	0	—	5	—	10	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Moderate	Deficient	Moderate	Moderate	Moderate	Deficient	Deficient	Moderate	Deficient	Moderate	Moderate
	Rainfall ...	Heavy	Moderate	Moderate	Moderate	Moderate	Moderate	Light	Light	Light	Light	Light	Moderate
	Sunshine ...	Abundant	Very abundant	Moderate	Moderate	Moderate	Moderate	Abundant	Abundant	Scanty	Abundant	Abundant	Moderate

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

AUTUMN. 3 weeks from August 31st, 1919.	Warmth ...	1, 1, 1	2, 1, 0	2, 0, 1	2, 1, 0	2, 1, 0	2, 1, 0	2, 0, 1	2, 0, 1	1, 2, 0	2, 0, 1	2, 1, 0	1, 2, 0
	Rainfall ...	1, 2, 0	0, 3, 0	1, 2, 0	0, 2, 1	0, 3, 0	0, 2, 1	1, 1, 1	0, 1, 2	0, 1, 2	0, 2, 1	1, 0, 2	1, 1, 1
	Sunshine ...	3, 0, 0	3, 0, 0	1, 1, 1	1, 2, 0	1, 1, 1	1, 2, 0	2, 0, 1	2, 1, 0	1, 0, 2	3, 0, 0	2, 1, 0	1, 2, 0

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(25265—19.) Wt. 162—833/512. 625. 9/19. D & S. G. 17/ 36.

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft Mean.	Earth 4 ft Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																						
a, Islands .. a Lerwick	54	57	15th	40	19th	53·4	46·4	49·7	- 0·2	7	2·38	60	+ 47									
a Houton Bay, Orkney	520	58	17th	37	20th	53·0	43·9	48·2	—	—	—	—	—	Houton Bay ..	—	—	—	•	•	•	•	•	•
a Stornoway	51	59	17th	35	20th	54·3	46·3	50·1	- 1·1	5	1·77	45	+ 27	Stornoway ..	4·1	+ 0·7	33	•	•	•	•	•	•
a Castlebay, Barra I. ..	37	57	14, 16, 17	38	20th	54·1	47·4	50·6	—	4	0·63	16	—	Castlebay ..	4·7	—	38						
b, Mainland. a Wick	81	61	18th	36	20th	55·6	41·4	48·2	- 2·9	5	0·91	23	+ 12										
a Strathpeffer	125	64	15, 16	35	15, 20	58·1	43·9	50·7	- 1·1	4	0·89	23	+ 13										
p Glencarron	500	58	17th	33	19, 20	54·1	40·7	47·1	- 3·7	5	2·00	51	+ 17										
a Fort Augustus	68	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William	171	64	16th	33	14th	57·6	40·6	48·7	- 4·0	5	0·81	21	- 7										
1. SCOTLAND, E.																							
a Nairn	82	65	15–17	33	20th	58·9	40·4	49·2	- 2·5	6	0·65	17	+ 4	Nairn	1·0	—	41	•	•	•	•	•	•
p Gordon Castle	101	67	16th	34	20th	60·1	42·6	50·9	- 1·3	4	0·80	20	+ 5	Gordon Castle ..	5·7	—	46	•	•	•	•	•	•
a Aberdeen	46	70	16th	35	14, 20	60·4	39·4	49·4	- 2·7	4	1·17	30	+ 17	Aberdeen ..	6·8	+ 3·0	55	2	28	•	•	53·2	+0·7
a Balmoral	930	65	16th	27	14th	55·6	37·6	46·2	- 2·7	3	1·83	46	+ 32	Balmoral ..	•	•	•	4	24	•	•	•	•
p Crieff	432	64	16th	31	19th	59·6	39·4	49·0	- 3·6	3	0·03	1	- 16	Crathes	6·6	+ 3·1	54	4	22	52·4	-1·3	53·4	-0·4
a Dundee	244	68	16th	32	20th	61·1	40·3	50·2	- 2·2	0	0·00	0	- 12	Dundee	7·0	—	57	4	27	53·4	•	•	•
a Leith	30	66	17th	35	20th	59·4	42·7	50·7	- 3·1	1	0·04	1	- 9	Leith	•	•	•	0	31	•	•	•	•
p Edinburgh	441	64	17th	33	20th	60·0	42·1	50·6	- 1·9	2	0·03	1	- 10	Edinburgh ..	6·0	+ 2·3	49	1	29	•	•	•	•
a West Linton	769	63	17th	27	15th	56·7	35·9	45·8	- 3·3	4	0·15	4	—	West Linton ..	5·6	—	46	4	25	•	•	•	•
p Marchmont	498	68	17th	32	20th	60·1	39·1	49·1	- 2·5	3	0·23	6	- 8	Marchmont ..	5·8	+ 2·1	47	•	•	•	•	•	•
6. a, SCOTLAND, W.																							
a Ford (Argyll)	149	64	16th	32	14th	57·4	39·6	48·1	—	5	0·72	18	—	Ford (Argyll) ..	•	•	•	3	24	55·2	—	55·4	—
p Glasgow Observatory	180	62	17th	36	20th	58·0	41·3	49·3	- 3·3	4	0·16	4	- 13	Glasgow	5·0	+ 1·9	41	3	27	•	•	•	•
p Rothesay	200	61	16th	32	19th	56·3	41·7	48·7	- 4·4	3	0·36	9	- 14	Rothesay	7·0	—	57	1	30	54·0	—	54·3	+0·5
a Kilmarnock	90	65	15, 17	33	14, 20	60·1	40·1	49·6	- 2·4	3	0·14	4	- 14	Kilmarnock ..	6·7	—	54	•	•	52·8	—	53·9	—
a Colmonell	170	67	16th	33	15th	61·1	41·1	50·6	- 2·1	3	0·17	4	- 15	Colmonell ..	•	•	•	3	27	•	•	•	•
p Cally, Gatehouse	120	64	16, 17	35	15, 20	61·9	39·7	50·3	- 1·5	3	0·34	9	- 12	Dumfries	5·6	—	46	1	28	53·4	-1·2	54·9	-1·8
p Dumfries	160	65	17th	34	20th	59·6	39·6	49·1	- 4·2	3	0·22	6	- 8	Eskdalemuir ..	6·5	—	53	3	24	•	•	•	•
a Eskdalemuir	794	62	17th	31	15th	56·9	36·3	46·1	—	2	0·16	4	—										
b, I. OF MAN p Douglas	277	65	17th	37	19, 20	58·6	45·1	51·5	- 2·1	2	0·35	9	- 9	Douglas	6·8	+ 2·3	55	0	34	•	•	•	•
2. ENGLAND, N.E.																							
a North .. a Alnwick Castle ..	210	69	17th	32	15th	59·9	40·9	49·9	- 2·6	3	0·33	8	- 4										
a Tynemouth	118	66	17th	33	20th	58·7	44·0	51·0	- 2·2	2	0·16	4	- 6	Cockle Park ..	5·6	+ 1·5	46	2	28	50·4	-1·4	53·7	+0·8
p Durham	336	68	17th	32	15th	60·9	38·7	49·3	- 3·5	3	0·14	4	- 6	Durham	5·2	+ 1·5	42	4	22	•	•	•	•
p Rounton	249	69	17th	29	20th	59·6	38·9	48·8	- 3·6	2	0·11	3	- 6	Rounton	•	•	•	5	17	54·5	•	•	•
a West Witton	605	66	16, 17	24	20th	60·6	40·3	50·0	—	1	0·03	1	—	West Witton ..	•	•	•	1	30	51·6	—	53·3	—
p Scarborough	100	66	18th	34	20th	60·4	47·9	53·9	- 0·8	2	0·65	17	+ 7	Scarborough† ..	4·7	+ 0·4	38	•	•	•	•	57·5	—
p York	56	70	17th	33	20th	59·9	40·9	49·9	- 4·4	2	0·12	3	- 6	York	3·4	- 0·5	28	—	—	56·3	+0·4	56·7	+0·6
b, South .. a Spurn Head	26	66	18th	37	20th	59·0	47·6	53·0	- 2·5	3	0·35	9	+ 1	Spurn Head ..	•	•	•	•	•	•	•	•	•
a Lincoln	58	69	17th	33	20th	60·0	44·4	51·8	- 3·1	4	0·20	5	- 3	Lincoln	•	•	•	0	32	56·5	+0·8	57·6	+1·1
a Fulbeck	180	69	17th	32	20th	58·9	44·4	51·3	- 3·7	5	0·38	10	+ 1	Fulbeck	2·8	- 1·8	23	•	•	—	—	—	—
														Skegness ..	3·5	- 1·4	28	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	72	18th	33	20th	60·4	47·1	53·4	- 3·0	3	0·27	7	- 1	Cromer	3·9	- 1·0	32	•	•	•	•	•	•
a Little Massingham ..	280	71	18th	30	20th	—	44·1	—	—	2	0·17	4	- 6	Lit. Massingham	3·6	- 1·0	29	•	•	•	•	•	•
a Yarmouth	13	74	18th	33	20th	60·6	48·0	54·0	- 2·1	3	0·20	5	- 4	Yarmouth ..	4·6	—	37	1	30	58·9	+0·8	59·0	-0·2
a Norwich	93	72	18th	32	20th	60·9	46·7	53·5	- 2·2	4	0·42	11	+ 1	Norwich	4·2	—	34	1	25	58·4	•	•	•
a Geldeston	37	74	18th	30	20th	62·3	44·4	52·9	- 2·9	2	0·23	6	- 3	Geldeston ..	4·2	- 0·8	34	•	•	•	•	•	•
p Cambridge	41	74	18th	31	20th	64·3	45·4	54·4	- 1·4	2	0·09	2	- 5	Cambridge ..	73·6	- 1·3	29	1	26	59·5	+2·5	59·5	+1·3
a Clacton-on-Sea ..	54	69	18th	34	20th	61·7	50·0	55·6	- 1·0	3	0·12	3	- 5	Clacton	4·8	- 0·9	39	1	29	60·1	+2·4	60·4	+1·8
a Rothamsted	424	69	18th	32	20th	59·9	46·1	52·7	- 2·0	3	0·25	6	- 3	Rothamsted ..	4·4	- 0·5	36	1	26	58·1	•	60·4	•
p Tottenham	51	72	18th	36	20th	63·9	48·1	55·6	—	2	0·61	15	—	Tottenham ..	4·4	—	36	0	32	•	•	63·3	+3·4
														S'thend-on-Sea	4·5	—	37	0	34	63·2	—	—	—
4. MIDLAND COUNTIES.																							
a North .. a Harrogate	479	67	17th	32	20th	57·6	42·7	49·8	- 3·0	3	0·10	3	- 7	Harrogate	4·4	+ 0·2	36	1	28	53·8	+0·2	54·9	+0·8
p Sheffield	429	69	17th	35	20th	59·0	44·1	51·2	—	3	0·11	3	—	Sheffield	3·2	- 0·6	26	1	28	54·9	+0·3	55·5	+0·6
p Buxton	987	65	17th	32	20th	55·6	43·3	49·2	—	3	0·67	17	0	Buxton	3·6	—	29	0	31	52·9	-0·5	55·3	+0·9
b, East .. a Bawtry	65	67	17th	34	20th	58·3	41·9	49·7	- 4·5	3	0·16	4	- 4	Worksop	2·0	- 1·8	16	3	22	54·6	—	55·9	—
a Nottingham	82	69	17th	34	20th	59·3	43·9	51·2	- 3·3	3	0·24	6	- 3	Nottingham ..	2·4	- 1·6	20	0	31	53·1	-1·7	57·5	+0·7
p Birmingham, Edgbsn.	535	69	17th	33	20th	59·4	45·1	51·9	- 2·6	4	0·61	16	+ 6	Birmingham ..	3·7	+ 0·2	30	1	29	53·1	+0·1	53·8	+0·6
a Raunds	203	73	18th	30	20th	61·4	44·9	52·8	- 2·7	3	0·20	5	- 3	Raunds	3·9	—	32	1	24	59·5	—	56·9	—
p Oxford	208	72	18th	35	20th	63·1	45·9	54·1	- 1·3	4	0·19	5	- 4	Oxford	5·7	+ 1·1	46	1	28	•	•	•	•
c, West .. a Cheadle (N. Staffs.) ..	646	70	17th	34	20th	58·7	44·6	51·3	- 1·9	3	0·33	9	- 4	Cheadle	•	•	•	—	—	—	—	•	•
p Tenbury	313	71	17th	32	20th	61·0	42·6	51·4	- 2·4	3	0·64	16	+ 8	Tenbury	•	•	•	1	28	56·3	—	—	—
p Ross-on-Wye	201	70	17th	35	20th	61·6	44·6	52·7	- 1·9	3	0·10	3	- 6	Ross-on-Wye ..	5·3	—	43	1	30	—	—	—	—
a Clifton	228	70	17th	40	20th	61·7	49·9	55·5	- 1·2	3	0·11	3	- 14	Clifton	5·5	—	45	0	37	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	71	17th	30	20th	62·3	43·7	52·6	- 0·8	4	0·27	7	- 7	Worthing	6·2	+ 0·5	50	1	30	61·7	+3·5	60·9	+1·6
p Salisbury (Wilton) ..	180	72	18th	31	20th	64·4	46·9	55·2	+ 0·1	2	0·17	4	- 6	Marlborough ..	5·5	+ 1·1	45	1	23	57·7	—	57·1	—
a Wisley, Surrey ..	150	72	18th	32	20th	62·3	47·1	54·3	- 1·0	2	1·06	27	+ 17	Salisbury	•	•	•	1	28	61·1	•	•	•
a Tunbridge Wells ..	354	70	18th	31	20th	62·3	46·9	54·2	- 1·5	3	0·26	7	- 4	Wisley	4·8	- 0·1	39	1	22	59·2	+2·4	58·7	+0·9
a Margate	51	72	18th	36	20th	62·1	52·6	57·1	- 0·7	2	0·04	1	- 9	Tunbridge Wells	4·5	- 0·8	37	1	27	60·0	+2·5	59·7	—
														Margate	4·8	- 0·4	39	0	31	62·6	+5·0	62·9	+4·7
a Dungeness	21	67	18th	32	20th	63·6	49·9	56·4	- 0·8	1	0·04	1	- 9	Folkestone ..	4·7	—	38	•	•	•	•	56·9	—
p St. Leonards	178	68	18th	34	20th	63·3	50·3	56·5	- 0·8	1	0·05	1	- 10	St. Leonards ..	5·6	0·0	46	1	28	61·5	—	60·9	—
p Southampton	64	71	17th	35	20th	64·6	49·1	56·5	- 0·8	2	0·52	13	+ 2	Southampton ..	5·1	- 0·2	41	1	28	•	•	•	•
a Ventnor	59	68	14th	39	20th	63·7	52·6	57·9	- 0·5	1	0·08	2	- 10	Ventnor	5·6	+ 0·2	46	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	70	18th	36	20th	61·8	48·8	55·0	- 1·0	3	0·67	17	+ 8	Richmond	4·2	- 0·5	34	1	23	59·4	+2·9	58·8	+1·6
a Westminster	27	73	18th	35	20th	63·6	49·6	56·3	- 0·9	4	0·54	14	+ 6	Westminster ..	4·0	- 0·1	33	1	29	•	•	•	•
ag Greenwich	149	74	18th	33	20th	63·4	48·0	55·3	- 1·6	4	0·54	14	+ 3	Greenwich	4·0	- 1·0	33	1	24	•	•	•	•
a Hampstead	450	70	18th	32	20th	61·6	47·0	54·0	—	4	0·72	18	—	Hampstead	4·6	—	37	—	—	•	•	•	•
ag Camden Square ..	110	74	18th	34	20th	66·0	48·9	57·0	- 0·5	4	0·70	18	+ 9	Camden Square ..	3·6	- 0·4	29	0	32	•	•	•	•
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	64	17th	35	20th	57·7	41·6	49·3	- 4·0	3	0·15	4	- 13	Aspatria	4·9	+ 0·4	40	0	32	53·0	-1·3	54·3	-0·3
p Newton Rigg	559	66	17th	32	15th	60·0	38·6	48·8	- 3·3	3	0·15	4	- 10	Newton Rigg ..	5·5	+ 1·3	45	4	23	54·6	0·0	54·9	+0·6
p Stonyhurst	376	64	17th	37	20th	59·0	45·4	51·9	- 1·5	2	0·27	7	- 13	Stonyhurst ..	4·8	+ 0·7	39	1	30	•	•	•	•
p Blackpool	66	68	17th	38	20th	60·1	45·1	52·2	- 2·5	3	0·28	7	- 8	Blackpool ..	5·5	+ 0·8	45	1	26	55·9	—	55·5	—
a Southport	37	64	17th	38	20th	59·1	45·7	52·1	- 2·5	4	0·33	8	- 7	Southport ..	5·7	+ 1·2	46	1	30	55·6	-0·4	58·1	+0·4
														Hoylake ..	5·9	+ 1·5	48	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	65	17, 18	35	20th	59·7	47·3	53·2	- 2·0	3	0·28	7	- 6	Liverpool ..	5·6	—	46	0	32	•	•	•	•
a Hawarden Bridge ..	22	66	16th	—	—	60·9	47·3	53·8	- 1·7	4	0·67	17	+ 7	Manchester (City)	3·2	- 0·3	26	0	33	56·1	+0·5	59·0	+1·2
p Manchester (Whit. Pk.)	126	68	17th	34	20th	60·7	45·9	52·9	- 2·5	3	0·27	7	- 5	Whitworth Park	3·6	+ 0·2	29	•	•	•	•	•	•
b, NORTH WALES.																							
p Llandudno	16	66	17th	41	20th	61·1	48·6	54·6	- 1·5	3	0·35	9	- 3	Llandudno ..	5·3	+ 0·5	43	•	•	•	•	•	•
a Holyhead	15	64	16, 17	40	20th	59·9	49·4	54·4	- 1·2	3	0·45	11	- 3	Holyhead ..	5·8	—	47	0	35	•	•	•	•
a Beddgelert	309	65	16th	36	20th	57·7	45·0	51·1	—	4	3·28	83	—										
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average.
8. *a*, SOUTH WALES.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.									
a Aberystwyth	59	66	15th	40	20th	59·9	50·0	54·7	—	3	0·68	17	—	Aberystwyth ..	hr. 3·5	hr. − 1·5	% 28	•	•	•	•	•
a Rhayader	757	66	17th	31	20th	58·1	42·3	49·8	—	5	0·55	14	—	Rhayader ..	5·4	—	44	2	26	•	•	•
a St. Ann's Head	149	64	16, 17	40	20th	59·9	51·7	55·6	− 0·4	3	0·31	8	− 6	St. Ann's Head ..	2·3	− 2·7	19	•	•	•	•	•
p Cardiff	202	69	17th	34	20th	61·6	47·0	54·0	− 1·2	0	0·00	0	− 16	Cardiff	5·0	—	41	1	29	58·5	+2·1	58·6	+1·2
b, ENGLAND, S.W.																						
a Bath	66	72	17, 18	35	20th	63·7	47·4	55·2	− 0·5	2	0·11	3	− 7	Bath	•	•	•	•	•	61·3	+2·6	60·8	+1·1
a Shaftesbury	722	70	17th	34	20th	60·9	46·9	53·6	− 1·5	2	0·18	5	− 7	Shaftesbury ..	•	•	•	•	•	60·1	—	59·4	—
a Arlington	613	67	16, 17	37	20th	58·9	49·4	53·9	− 0·6	4	1·06	27	+ 6										
a Newquay	190	67	17th	43	20th	61·3	53·6	57·3	+ 0·3	3	0·28	7	− 7	Newquay ..	2·7	− 2·6	22	•	•	61·2	—	60·1	—
a Cullompton	202	72	18th	35	20th	62·7	49·1	55·6	+ 0·2	5	0·46	12	+ 1	Cullompton ..	3·8	− 1·0	31	0	31	60·4	•	•	•
a Portland Bill	19	68	17th	40	20th	62·6	53·4	57·8	+ 0·1	3	0·06	2	− 8	Weymouth ..	5·9	—	48	•	•	•	•	•	•
p Plymouth	116	69	17th	38	20th	62·6	53·0	57·6	+ 0·7	4	0·48	12	0	Plymouth ..	4·0	− 1·3	33	0	35	60·8	+2·6	60.0	—
a Falmouth	167	71	18th	42	20th	61·6	54·0	57·6	+ 1·0	5	0·32	8	− 7	Falmouth ..	2·8	− 2·6	23	0	?	62·4	—	62·4	—
9. IRELAND, N.																						
a West .. { *a* Malin Head	208	62	15, 16	41	20th	58·7	47·6	52·9	− 1·4	4	0·55	14	0	Malin Head ..	6·7	—	54	•	•	•	•	•	•
a Blacksod Point ..	37	63	16th	40	15th	59·1	44·9	51·7	− 3·4	4	0·35	9	− 11	Markree Castle	5·4	+ 1·7	44	3	25	56·6	−0·1	56·9	+0·6
p Markree Castle ..	122	68	17th	30	15th	60·9	38·1	49·0	− 4·1	4	0·58	15	− 3										
b, East .. { *p* Armagh	196	66	16, 17	35	20th	60·1	41·1	50·1	− 3·4	4	0·31	8	− 5	Armagh	5·5	+ 1·6	45	2	29	55·7	−0·2	56·1	+0·1
a Donaghadee	39	65	16th	38	20th	59·1	46·0	52·2	− 2·1	2	0·13	3	− 10										
10. IRELAND, S.																						
p Dublin, City	47	64	17th	38	20th	59·1	47·0	52·8	− 2·6	2	0·08	2	− 9	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
a Birr Castle	175	68	17th	36	15, 20	60·1	41·0	50·1	− 3·7	3	0·24	6	− 8	Phœnix Park ..	5·9	+ 1·3	48	5	25	•	•	•	•
a Kilkenny	195	67	17th	36	20th	61·5	46·7	53·7	− 0·6	2	0·13	3	− 11	Dublin City ..	•	•	•	0	34	•	•	•	•
a Waterford	137	65	15, 17, 18	37	20th	61·4	47·9	54·3	− 1·0	0	0·00	0	− 16	Birr Castle ..	5·0	+ 0·8	41	0	33	•	•	•	•
p Seskin, Carrick-on-Suir	535	65	16, 17	34	20th	60·4	44·6	52·1	—	5	0·11	3	—	Seskin	5·1	—	41	0	32	•	•	•	•
a Cahir	199	64	15, 17	38	20th	60·4	45·6	52·6	− 2·0	4	0·12	3	—										
a Foynes	50	68	17th	40	20th	60·6	48·7	54·4	− 0·7	3	0·24	6	− 13										
a Cahirciveen (Val. Obs.)	30	65	17th	42	15, 16	60·0	46·9	53·1	− 2·8	4	0·35	9	− 15	Cahirciveen ..	5·9	+ 1·5	48	0	35	•	•	•	•
a Killarney	174	70	17th	37	20th	63·9	47·3	55·2	− 0·5	4	0·32	8	− 13	Ballinacurra ..	4·5	+ 0·1	37	•	•	•	•	•	•
a Roche's Point	32	64	18th	40	20th	60·3	48·3	54·0	− 2·0	4	0·26	7	− 10										
11. ENGLISH CHANNEL.																						
a Scilly, St. Mary's ..	131	67	18th	44	20th	61·1	53·9	57·3	− 0·6	5	0·56	14	+ 2	Scilly	2·8	− 3·1	23	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	76	14th	46	20th	66·7	56·1	61·2	+ 1·7	1	0·40	10	− 2	St. Heliers ..	6·4	− 0·1	52	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	72	17th	44	20th	65·6	55·9	60·5	+ 0·9	2	0·52	13	0	Guernsey† ..	6·3	− 0·2	51	0	33	63·1	+2·9	62·0	+1·0

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, September 20th, 1919.

DISTRICT AND STATION	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time. day.	hr.	Highest Gust. Speed.	Date d.	h.	m.
0. SCOTLAND, N.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
Deerness (Cup Anr.)** ..	188	16	5	—	—	18, 19	20	32	102	14	0	349	16	19	1	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	37	51	80	0	360	8	20	11	23	20	12	25
Aberdeen	153	105	52	—	—	19, 20	25	39	43	61	0	315	14	20	13	24	20	13	30
Edinburgh	485	39	31	—	—	19, 20	11	69	54	34	0	315	13	20	13	21	20	12	30
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	18, 20	13	63	43	49	0	260	17	18	15	24	18	16	25
Paisley	188	81	15	—	—	—	—	44	73	51	0	270	10	18	14	23	18	13	55
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
South Shields	72	61	12	—	—	20	6	56	73	33	0	315	12	20	9	19	20	11	25
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Gorleston	52	42	‡	—	—	14	3	94	71	0	0	—	11	14	22	17	19	16	20
Shoeburyness	103	90	‡	—	—	—	—	61	84	23	0	45	9	15	15	15	19	11	20
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	21	108	39	0	315	7	19	16	14	19	14	35
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	50	83	35	0	—	8	14	19	15	19	12	55
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument out of adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	19	1	61	59	31	16	310	11	19	12	16	19	15	10
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	2	123	40	3	{ 236 / 304	{ 6 / 6	18 / 19	{ 15 / 11	11	19	11	20
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	10	46	112	0	225	8	18	22	14	18	21	15
Fleetwood (Cup Anr.) ..	109	44	—	18, 19	3	18 to 20	41	22	72	5	25	304	18	19	2	—	—	—	—
Southport	80	62	48	—	—	18 to 20	46	20	97	5	0	304	16	19	4	22	19	2	15
Holyhead	60	40	‡	19	1	18 to 20	48	61	35	23	0	326	17	19	8	23	19	12	10
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	15, 16, 20	13	100	53	2	0	337	13	20	13	21	20	13	35
Plymouth	185	88	‡	—	—	—	—	10	127	31	0	—	8	19	14	17	20	18	10
Lyme Regis	556	61	‡	—	—	—	—	14	71	77	6	—	9	19	14	15	19	16	35
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	18 to 20	37	55	51	25	0	315	15	19	9	—	—	—	—
Quilty	100	40	‡	—	—	18 to 20	39	36	65	28	0	—	16	19	24	25	20	0	5
Cahirciveen (Val. Obs.)	98	41	‡	—	—	19, 20	21	51	32	64	0	355	13	20	9	24	20	0	40
Weaver Pt.	160	30	‡	—	—	19, 20	16	62	82	8	0	—	14	20	11	26	20	1	5
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	20	1	19, 20	35	73	52	7	0	337	18	20	6	25	20	5	20

† More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting.
§ Direction from the Robinson Anemometer at Falmouth Observatory.
* Above tops of trees.
** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

THIRTY-EIGHTH WEEK of 1919—September 14th to September 20th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	64	33	86·1	79·2	82·5	− 1·2	50	− 15	0	0	5	+ 1	1·46	37	+ 20	4·1	+0·7	33	1016
Eastern.																			
1. SCOTLAND, EAST ...	70	27	87·9	77·2	82·3	− 1·6	58	− 9	7	+ 6	4	+ 1	0·61	16	+ 3	6·2	+2·4	50	1016
2. ENGLAND, N.E.	70	29	88·4	79·2	83·6	− 1·5	63	− 20	0	0	3	0	0·27	7	− 2	4·2	−0·1	34	1018
3. ENGLAND, EAST ...	74	30	89·6	81·3	85·2	− 0·9	84	− 12	0	0	3	0	0·26	7	− 2	4·2	−0·8	34	1019
4. MIDLAND COUNTIES ...	73	30	88·7	80·0	84·1	− 1·3	70	− 17	0	− 1	3	0	0·27	7	− 3	4·0	−0·2	33	1020
5. ENGLAND, S.E.	72	30	90·3	82·3	86·1	− 0·5	95	− 6	0	0	2	− 1	0·32	8	− 2	5·1	−0·2	41	1019
Western.																			
6. SCOTLAND, WEST ...	67	32	88·1	78·0	82·8	− 1·8	58	− 17	3	+ 3	3	0	0·31	8	− 12	5·9	+2·0	48	1019
7. ENGLAND, N.W.	68	32	88·4	80·5	84·3	− 1·2	72	− 15	0	0	3	0	0·32	8	− 6	5·3	+1·0	43	1020
8. ENGLAND, S.W.	72	31	89·3	82·7	85·8	− 0·4	92	− 4	0	0	3	0	0·35	9	− 5	3·5	−1·4	28	1020
9. IRELAND, NORTH ...	68	30	88·4	79·2	83·6	− 1·5	63	− 20	0	0	4	0	0·36	9	− 6	5·5	+1·6	44	1021
10. IRELAND, SOUTH ...	70	36	89·0	81·1	84·9	− 0·9	80	− 11	0	0	3	− 1	0·19	5	− 12	5·3	+0·9	43	1023
11. ENGLISH CHANNEL ...	76	44	91·1	85·9	88·4	+ 0·5	124	+ 6	0	0	3	0	0·49	12	0	5·2	−1·3	42	1020

THE SEASON (Autumn).—Aggregates, &c., for the Period of 3 Weeks, August 31st to September 20th, 1919.

0. SCOTLAND, NORTH ...	71	33	87·8	81·4	84·5	+ 0·2	224	+ 8	0	0	14	+ 1	2·79	71	+ 10	4·7	+1·1	36	1013
Eastern.																			
1. SCOTLAND, EAST ...	75	27	89·8	80·6	85·0	+ 0·4	254	+ 25	7	+ 6	11	+ 1	1·53	40	+ 4	5·5	+1·3	42	1014
2. ENGLAND, N.E.	85	29	91·2	82·5	86·7	+ 1·0	306	+ 33	0	0	9	+ 1	1·11	29	+ 2	4·6	−0·1	36	1017
3. ENGLAND, EAST ...	88	30	93·0	83·6	88·1	+ 1·4	360	+ 49	0	0	6	− 2	0·50	13	− 17	5·8	+0·6	46	1018
4. MIDLAND COUNTIES ...	90	30	91·6	82·5	86·9	+ 0·8	313	+ 27	0	− 1	10	+ 2	1·21	31	+ 1	4·4	−0·2	34	1018
5. ENGLAND, S.E.	85	30	93·0	84·4	88·5	+ 1·2	376	+ 47	0	0	5	− 3	0·89	23	− 10	6·2	+0·6	49	1018
Western.																			
6. SCOTLAND, WEST ...	73	32	89·2	81·7	85·3	+ 0·2	259	+ 10	3	+ 3	11	+ 1	2·39	61	+ 3	4·9	+0·4	38	1016
7. ENGLAND, N.W.	84	32	90·4	83·0	86·5	+ 0·4	301	+ 19	0	0	10	0	1·35	34	− 9	5·0	+0·3	39	1017
8. ENGLAND, S.W.	86	31	91·3	84·1	87·5	+ 0·8	339	+ 30	0	0	10	0	1·25	32	− 11	4·6	−0·6	37	1018
9. IRELAND, NORTH ...	75	30	90·1	82·1	85·9	+ 0·4	277	+ 13	0	0	13	+ 1	1·79	45	− 1	5·0	+0·1	39	1016
10. IRELAND, SOUTH ...	75	36	90·5	83·0	86·6	+ 0·4	305	+ 14	0	0	11	0	1·44	36	− 11	5·3	+0·6	41	1018
11. ENGLISH CHANNEL ...	83	44	92·6	86·3	89·3	+ 0·9	405	+ 34	0	0	7	− 2	1·90	47	+ 10	6·5	+0·1	51	1019

THE YEAR 1919.—Aggregates, &c., for the Period of 38 Weeks, December 29th, 1918, to September 20th, 1919.

0. SCOTLAND, NORTH ...	78	11	83·7	77·5	80·5	− 0·6	1613	−145	680	+ 141	161	−13	28·79	734	−119	3·8	+0·2	28	1012
Eastern.																			
1. SCOTLAND, EAST ...	78	5	84·7	76·9	80·6	− 0·8	1818	−149	794	+ 176	133	−15	17·79	458	− 79	4·4	+0·1	33	1012
2. ENGLAND, N.E.	85	11	85·8	78·4	81·9	− 0·3	2187	− 63	578	+ 106	135	+ 3	17·71	451	+ 22	4·3	−0·3	32	1013
3. ENGLAND, EAST ...	88	10	86·6	78·6	82·4	− 0·5	2427	−158	580	+ 86	124	− 4	17·50	448	+ 39	4·7	−0·3	36	1014
4. MIDLAND COUNTIES ...	90	9	86·5	78·3	82·3	− 0·4	2418	−104	628	+ 105	126	− 1	20·76	528	+ 69	4·3	−0·2	33	1014
5. ENGLAND, S.E.	86	16	87·1	79·4	83·1	− 0·4	2638	−102	451	+ 72	121	− 3	20·13	509	+ 67	4·8	−0·4	37	1014
Western.																			
6. SCOTLAND, WEST ...	83	14	85·3	78·2	81·6	− 0·5	1992	−160	542	+ 126	144	−11	26·48	673	−115	4·7	+0·3	35	1013
7. ENGLAND, N.W.	84	16	85·6	79·0	82·2	− 0·4	2212	−132	494	+ 112	132	− 8	20·77	528	− 65	4·5	−0·1	34	1014
8. ENGLAND, S.W.	86	15	86·5	79·5	82·8	− 0·5	2471	−108	409	+ 108	134	− 5	25·65	652	+ 23	5·0	0·0	38	1015
9. IRELAND, NORTH ...	78	22	85·5	78·9	82·1	− 0·4	2095	−141	437	+ 97	162	− 9	22·77	573	− 84	4·3	+0·3	32	1013
10. IRELAND, SOUTH ...	80	22	86·6	79·6	83·0	− 0·3	2456	−115	362	+ 102	153	+ 2	22·97	584	−100	4·5	0·0	34	1015
11. ENGLISH CHANNEL ...	85	26	87·1	81·6	84·2	− 0·3	2849	−112	137	+ 32	133	− 9	27·08	684	+176	5·6	−0·4	43	1016
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F			inches.	mm	mm.	hr.	hr.	%	h.m

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: September 26th, 1919.

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FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN

FORTY-SECOND YEAR. *Vol. XXXVI. (New Series.)* } No. 39.

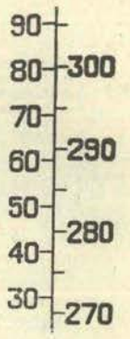
THE THIRTY-NINTH WEEK OF 1919.

SUNDAY, SEPTEMBER 21ST, TO SATURDAY, SEPTEMBER 27TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

Numerous depressions or their secondaries moving eastwards over the British Islands and Northern Europe maintained the weather of the week in a somewhat unsettled condition generally. The winds were variable, but mainly from between South-West and North-West, and fresh or strong in force; gales were reported locally. The warmest day at most stations was the 25th, when readings of 293 a. or 294 a. were reported in many parts of England. The minima showed very large variations, the lowest readings, about 273 a. at isolated stations, occurred as a rule on the morning of the 24th, but on the 26th at many places over the southern districts the thermometer went no lower than 286 a. The mean temperature was below the normal at all the stations for which data are available, the divergence being about 1·5 a. or 2 a. Rainfall was heavy in Scotland and England N.W. (in Scotland N. rain fell every day), but at most stations in other regions it was less than normal. At Beddgelert the week's total was 98mm. (nearly 4 inches). Slight thunderstorms occurred over the south-eastern parts of England on Tuesday. Bright sunshine was generally slightly more than the normal, but there was a deficiency in England S.E.; at St. Leonards the mean daily amount was only 2·3 hr. against a normal of 5·3 hr. Solar halos were observed at Oxford on the 21st and 24th, at Ross-on-Wye and Tenbury on the 24th and at Greenwich on the 25th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E. Shoeburyness.†		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	—	—	20	5·1	15	4·9	14	3·3	12	4·8	8	2·5	19	4·4	14	3·7
North	—	—	5	2·0	12	3·0	8	1·7	14	6·0	16	5·1	7	2·8	11	4·6
West	—	—	26	5·6	26	4·0	21	3·3	25	6·2	19	5·5	27	6·6	23	3·9
East	—	—	0	—	1	0·8	0	—	2	4·1	6	2·5	0	—	1	2·0
Calm	—	—	0	—	0	—	6	—	0	—	0	—	0	—	3	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.												
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ... Warmth ...	Deficient	Deficient	Moderate	Deficient	Moderate	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient	Deficient
Rainfall ...	Heavy	Heavy	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Light
Sunshine ...	Moderate	Abundant	Abundant	Moderate	Moderate	Scanty	Abundant	Abundant	Moderate	Moderate	Moderate	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

AUTUMN. 4 weeks from August 31st, 1919. Warmth ...	1, 1, 2	2, 1, 1	2, 1, 1	2, 1, 1	2, 2, 0	2, 1, 1	2, 0, 2	2, 0, 2	1, 2, 1	2, 0, 2	2, 1, 1	1, 2, 1
Rainfall ...	2, 2, 0	1, 3, 0	1, 3, 0	0, 3, 1	0, 4, 0	0, 3, 1	1, 2, 1	0, 2, 2	0, 2, 2	0, 3, 1	1, 1, 2	1, 1, 2
Sunshine ...	3, 1, 0	4, 0, 0	2, 1, 1	1, 3, 0	1 , 1	1, 2, 1	3, 0, 1	3, 1, 0	1, 1, 2	3, 1, 0	2, 2, 0	1, 2, 1

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(25355—19) Wt. 162—833/512 625 10/19 H. St. G. 17/ 36

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM

['TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.				
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft	
						Of Daily Max.	Of Daily Min.	Daily Mean.										Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average
	Ft.	°F		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	°/₀.		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																							
a, Islands .. a Lerwick	54	56	25, 26	39	24th	52·4	42·3	47·1	- 2·0	7	1·97	50	+ 30	Houton Bay ..				•	•	•	•	•	•
a Houton Bay, Orkney	520	54	26th	34	21st	48·9	39·1	43·8	—	—	—	—	—	Stornoway ..	3·1	- 0·3	26	•	•	•	•	•	•
a Stornoway	51	58	25th	40	21st	51·6	43·3	47·3	- 2·7	7	1·57	40	+ 13	Castlebay ..	3·4	—	29	•	•	•	•	•	•
a Castlebay, Barra I. ..	37	57	25th	43	24th	53·0	45·9	49·3	—	7	1·30	33	—										
b, Mainland. a Wick	81	56	25th	36	24th	50·7	41·4	45·8	- 4·2	7	2·13	54	+ 38										
a Strathpeffer	125	—	—	—	—	—	—	—	—	—	—	—	—										
p Glencarron	500	—	—	—	—	—	—	—	—	—	—	—	—										
a Fort Augustus.. ..	68	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William	171	58	25th	38	27th	54·3	41·4	47·5	- 3·8	7	3·51	89	+ 48										
1. SCOTLAND, E.																							
a Nairn	82	59	25th	36	24th	51·9	41·4	46·4	- 3·9	7	1·23	31	+ 18	Nairn	2·7	—	23	•	•	•	•	•	•
p Gordon Castle ..	101	—	—	—	—	—	—	—	—	—	—	—	—	Gordon Castle..	—	—	—	•	•	•	•	•	•
a Aberdeen	46	65	25th	39	23, 24	54·7	43·4	48·8	- 2·2	5	1·15	29	+ 15	Aberdeen ..	4·9	+ 1·3	41	0	33	•	•	—	—
a Balmoral	930	62	25th	34	24th	50·3	38·7	44·2	- 3·4	7	1·14	29	+ 13	Balmoral ..	•	•	•	—	—	•	•	•	•
p Crieff	432	65	25th	34	27th	57·3	40·4	48·4	- 2·7	5	0·55	14	- 4	Crathes	4·3	+ 0·9	38	1	30	50·2	-2·7	51·4	-1·8
a Dundee	244	—	—	—	—	—	—	—	—	—	—	—	—	Dundee	—	—	—	—	—	•	•	•	•
a Leith	30	63	25th	39	23rd	56·1	43·3	49·4	- 3·1	5	0·34	9	- 2	Leith	•	•	•	0	34	•	•	•	•
p Edinburgh	441	62	26th	39	23, 27	55·9	41·7	48·5	- 2·8	6	0·33	9	- 3	Edinburgh ..	5·0	+ 1·4	42	0	33	•	•	•	•
a West Linton	769	59	25th	32	23rd	54·6	38·3	46·1	- 1·8	6	1·27	32	—	West Linton ..	3·3	—	28	4	26	•	•	•	•
p Marchmont	498	63	25th	35	24th	55·3	41·4	48·0	- 2·3	2	0·28	7	- 9	Marchmont ..	4·4	+ 1·0	37	•	•	•	•	•	•
6. a. SCOTLAND, W.																							
a Ford (Argyll)	149	59	25th	35	27th	54·3	41·0	47·3	—	7	3·07	78	—	Ford (Argyll) ..	•	•	•	4	29	52·5	—	54·3	—
p Glasgow Observatory	180	59	25, 26	39	23rd	54·7	43·6	49·0	- 2·6	6	0·86	22	+ 2	Glasgow.. ..	4·4	+ 1·7	37	3	26	•	•	•	•
p Rothesay	200	61	26th	39	27th	55·0	42·7	48·6	- 3·5	6	1·42	36	+ 9	Rothesay	—	—	—	0	32	50·7	—	52·9	-0·3
a Kilmarnock	90	60	25th	32	23rd	55·4	41·4	48·1	- 2·8	6	1·20	30	+ 8	Kilmarnock ..	4·3	—	36	•	•	50·4	—	52·9	—
a Colmonell	170	—	—	—	—	—	—	—	—	—	—	—	—	Colmonell ..	•	•	•	—	—	•	•	•	•
p Cally, Gatehouse ..	120	60	21, 25	32	23rd	56·6	40·9	48·4	- 2·5	6	0·89	23	- 3	Dumfries ..	4·8	—	40	3	28	50·7	-2·5	53·4	-2·4
p Dumfries	160	62	26th	35	23rd	56·7	41·9	48·9	- 3·2	5	0·96	24	+ 5	Eskdalemuir ..	4·2	—	35	4	21	•	•	•	•
a Eskdalemuir	794	58	25th	30	23rd	53·4	37·7	45·2	—	5	2·09	53	—										
b, I. OF MAN p Douglas	277	62	25th	41	24th	55·6	45·4	50·3	- 2·5	6	0·89	23	- 1	Douglas	4·9	+ 0·9	41	0	37	•	•	•	•
2. ENGLAND, N.E																							
a North .. a Alnwick Castle ..	210	—	—	—	—	—	—	—	—	—	—	—	—										
a Tynemouth	118	65	25th	33	21st	56·7	41·3	48·6	- 3·7	4	0·24	6	- 7	Cockle Park ..	5·1	+ 1·1	43	1	30	48·1	-2·9	51·7	-0·7
p Durham	336	65	25th	36	24th	59·9	41·4	50·2	- 1·5	4	0·14	4	- 9	Durham	4·6	+ 1·0	39	2	26	•	•	•	•
p Rounton	249	64	25th	35	24th	57·1	40·1	48·2	- 3·2	5	0·26	7	- 5	Rounton	•	•	•	5	26	51·7	•	•	•
a West Witton	605	60	24th	35	23rd	57·9	44·9	51·1	—	4	0·34	9	—	West Witton ..	•	•	•	0	31	49·7	—	51·8	—
p Scarborough	100	66	26th	40	24th	60·4	44·9	52·3	- 1·3	3	0·18	5	- 8	Scarborough† ..	5·3	+ 1·2	45	•	•	•	•	57·5	—
p York	56	65	25th	38	24th	59·4	43·9	51·3	- 1·8	2	0·29	7	- 4	York	4·2	+ 0·5	35	—	—	53·2	-1·9	55·5	-0·1
b, South .. a Spurn Head	26	66	25th	38	21st	58·3	44·7	51·2	- 3·3	4	0·39	10	0	Spurn Head ..	•	•	•	•	•	•	•	•	•
a Lincoln	58	69	25th	38	24th	60·4	43·6	51·6	- 2·0	3	0·76	19	+ 8	Lincoln	•	•	•	0	37	53·2	-1·5	56·0	0·0
a Fulbeck	180	68	25th	37	22, 27	60·3	41·7	50·6	- 3·1	4	0·74	19	+ 8	Fulbeck ..	6·0	+ 2·9	50	•	•	—	—	—	—
														Skegness ..	5·6	+ 1·3	47	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	69	25th	40	24th	58·6	44·4	51·2	- 3·5	5	0·14	4	- 9	Cromer	4·2	- 0·6	35	•	•	•	•	•	•
a Little Massingham ..	280	67	25th	36	22, 24	57·7	41·6	49·3	- 4·1	2	0·37	9	- 7	Lit. Massingham	4·7	+ 0·3	39	•	•	•	•	•	•
a Yarmouth	13	69	25th	34	21st	59·1	41·6	49·9	- 4·6	1	0·12	3	- 12	Yarmouth ..	5·2	—	44	0	36	55·4	-1·3	57·0	-1·4
a Norwich	93	68	25th	36	22nd	59·3	42·9	50·7	- 3·3	3	0·36	9	- 7	Norwich ..	5·0	—	42	0	31	53·3	•	•	•
a Geldeston	37	—	—	—	—	—	—	—	—	—	—	—	—	Geldeston ..	—	—	—	•	•	•	•	•	•
p Cambridge	41	69	25th	33	24th	60·6	41·6	50·6	- 3·4	3	0·26	7	- 5	Cambridge ..	4·8	+ 0·1	40	3	29	55·3	-0·8	57·9	+0·3
a Clacton-on-Sea ..	54	67	25th	38	21st	60·0	43·6	51·4	- 3·6	3	0·39	10	- 1	Clacton	3·6	- 1·7	30	0	33	55·2	-1·8	58·6	+0·5
a Rothamsted	424	64	25th	36	22nd	57·3	43·9	50·3	- 2·7	3	0·44	11	- 4	Rothamsted ..	4·0	- 0·7	34	1	29	54·2	•	•	•
p Tottenham	51	68	25th	36	21, 22	60·0	44·3	51·8	—	3	0·46	12	—	Tottenham ..	3·2	—	27	0	35	•	•	59·4	+0·3
														S'thend-on-Sea	3·3	—	28	0	38	58·4	-0·9	—	—
4. MIDLAND COUNTIES.																							
a North .. a Harrogate	479	61	25th	36	24th	56·7	42·3	49·2	- 2·1	5	0·37	10	- 3	Harrogate ..	4·9	+ 0·9	41	1	30	51·3	-1·6	53·2	-0·3
p Sheffield	429	—	—	—	—	—	—	—	—	—	—	—	—	Sheffield.. ..	—	—	—	—	—	—	—	—	—
p Buxton	987	65	24th	31	23rd	55·7	39·7	47·3	—	5	1·69	43	+ 22	Buxton	5·0	—	42	0	33	49·8	-2·5	54·4	+0·6
b, East a Bawtry	65	68	25th	38	22, 24	58·9	43·1	50·6	- 1·9	2	0·29	7	- 3	Worksop ..	5·5	+ 1·9	46	4	27	52·3	—	54·1	—
a Nottingham	82	67	25th	37	21, 24	59·3	41·9	50·2	- 2·7	3	0·59	15	+ 4	Nottingham ..	5·0	+ 1·2	42	0	31	50·9	-3·1	55·3	-0·8
p Birmingham, Edgbsn.	535	67	25th	40	24th	58·9	44·7	51·5	- 1·4	3	0·43	11	- 1	Birmingham ..	4·5	+ 1·2	38	1	29	50·4	-2·1	52·8	-0·2
a Raunds	203	69	25th	34	22nd	60·6	40·1	49·9	- 3·8	3	0·29	7	- 3	Raunds	5·1	—	43	4	26	55·3	—	56·2	—
p Oxford	208	64	25th	37	24th	58·9	44·6	51·4	- 2·4	2	0·19	5	- 7	Oxford	3·8	- 0·7	32	1	29	•	•	•	•
c, West a Cheadle (N. Staffs.) ..	646	68	25th	36	24th	58·9	43·6	50·9	- 0·7	3	0·88	22	+ 7	Cheadle	•	•	•	0	34	•	•	•	•
p Tenbury	313	66	25th	32	24th	60·6	41·6	50·6	- 1·8	4	0·44	11	+ 1	Tenbury	•	•	•	1	29	53·6	—	—	—
p Ross-on-Wye	201	66	25th	32	24th	61·6	42·9	51·8	- 1·3	3	0·24	6	- 6	Ross-on-Wye ..	4·0	—	34	1	29	—	—	—	—
a Clifton	229	60	22, 26	39	24th	58·6	45·9	52·0	- 2·9	5	0·70	18	- 2	Clifton	4·3	—	36	0	37	•	•	•	•
5. ENGLAND, S.E.														Worthing ..	3·4	- 2·0	29	0	36	56·7	-0·5	59·5	+0·9
a Marlborough	424	61	25, 26	32	24th	57·3	42·6	49·6	- 2·5	6	0·44	11	- 4	Marlborough ..	3·4	- 0·7	29	3	28	53·9	—	56·3	—
p Salisbury (Wilton) ..	180	—	—	—	—	—	—	—	—	—	—	—	—	Salisbury ..	•	•	•	—	—	—	—	—	—
a Wisley, Surrey ..	150	68	25th	35	24th	61·0	44·1	52·1	- 1·7	2	0·31	8	- 6	Wisley	4·4	- 0·1	37	2	27	55·4	-0·5	57·2	+0·1
a Tunbridge Wells ..	354	66	25th	37	21, 22, 24	60·1	44·1	51·7	- 2·6	3	0·71	18	+ 2	Tunbridge Wells	2·6	- 2·3	22	1	30	56·5	-0·5	58·3	—
a Margate	51	65	23, 25	43	22nd	62·3	50·3	56·0	- 0·4	3	0·71	18	+ 5	Margate	2·6	- 2·2	22	0	35	58·4	+1·9	61·3	+3·7
a Dungeness	21	65	25th	36	21st	61·7	45·3	53·1	- 2·8	5	0·55	14	- 1	Folkestone ..	2·3	—	19	•	•	•	•	56·0	—
p St. Leonards	178	—	—	—	—	—	—	—	—	—	—	—	—	St. Leonards ..	2·3	- 3·0	19	—	—	—	—	—	—
p Southampton	64	68	25th	39	21, 24	62·0	45·6	53·4	- 2·5	3	0·49	12	- 4	Southampton ..	5·3	+ 0·4	45	0	31	•	•	•	•
a Ventnor	59	65	23rd	42	21, 22	61·0	47·6	54·0	- 3·2	5	0·39	10	- 7	Ventnor	3·7	- 1·4	31	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	66	25th	39	21, 24	60·3	44·0	51·8	- 2·7	3	0·25	6	- 6	Richmond ..	3·3	- 1·0	28	3	29	54·9	-0·6	57·6	+1·0
a Westminster	27	69	25th	39	21, 24	61·8	45·9	53·5	- 2·3	3	0·27	7	- 4	Westminster ..	3·2	- 0·4	27	0	32	•	•	•	•
ag Greenwich	149	70	25th	37	22nd	62·3	45·0	53·2	- 2·1	3	0·42	11	- 1	Greenwich ..	3·5	- 1·0	29	3	24	•	•	•	•
a Hampstead	450	66	25th	38	21st	58·4	44·3	51·0	—	3	0·37	9	—	Hampstead ..	3·4	—	29	1	29	•	•	•	•
ag Camden Square ..	110	71	25th	37	24th	62·4	45·1	53·3	- 2·5	3	0·39	10	- 2	Camden Square	3·0	- 0·6	25	0	36	•	•	•	•
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	59	26th	35	21st	54·7	42·0	48·1	- 3·8	5	1·12	28	+ 5	Aspatria.. ..	4·1	0·0	35	0	31	50·4	-2·2	52·9	-1·1
p Newton Rigg	559	62	25, 26	35	23, 24	56·9	41·3	48·7	- 2·1	5	0·97	25	+ 6	Newton Rigg ..	4·8	+ 1·1	40	3	24	52·2	-3·3	53·9	+0·1
p Stonyhurst	375	60	25th	38	24th	56·0	44·9	49·7	- 2·3	5	1·82	46	+ 20	Stonyhurst ..	4·1	+ 0·5	34	0	32	•	•	•	•
p Blackpool	66	63	25th	41	23rd	57·6	47·3	52·2	- 1·2	5	0·82	21	+ 1	Blackpool ..	4·8	+ 0·6	40	2	29	53·9	—	54·8	—
a Southport	37	64	25th	43	23rd	56·7	47·0	51·6	- 1·7	5	0·79	20	+ 1	Southport ..	4·6	+ 0·6	39	0	34	52·7	-2·2	55·9	-0·9
														Hoylake ..	—	—	—	—	—	•	•	•	•
a Liverpool (Bidston) ..	188	66	25th	43	22, 24	57·3	45·7	51·2	- 2·6	5	0·76	19	+ 2	Liverpool ..	4·4	—	37	1	30	•	•	•	•
a Hawarden Bridge ..	22	67	25th	43	24th	58·6	48·0	53·1	- 1·1	5	0·93	24	+ 10	Manchester (City)	3·2	+ 0·1	27	0	36	51·9	-2·9	57·7	+0·6
p Manchester (Whit. Pk.)	125	65	25th	37	24th	58·0	45·1	51·2	- 2·8	5	0·90	23	+ 6	Whitworth Park	3·8	+ 0·9	32	•	•	•	•	•	•
b, NORTH WALES.																							
p Llandudno	16	65	25th	41	24th	58·6	48·3	53·2	- 1·7	5	0·78	20	+ 3	Llandudno ..	5·0	+ 0·7	42	•	•	•	•	•	•
a Holyhead	15	62	25th	46	24th	57·3	49·3	53·1	- 1·5	6	0·93	24	+ 5	Holyhead ..	5·3	—	45	0	36	•	•	•	•
a Beddgelert	309	59	25th	37	24th	54·9	44·7	49·6	—	6	3·86	98	—										
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.				Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.			Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.	
																		Ground Frosts.	Lowest Reading.	Mean.	Deviation from Average	Mean.	Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
3. *a.* SOUTH WALES.																							
a Aberystwyth	59	59	25, 26	40	24th	56·7	47·6	51·9	—	6	1·00	25	—	Aberystwyth ..	4·3	0·0	36	•	•	•	•	•	•
a Rhayader	757	—	—	—	—	—	—	—	—	—	—	—	—	Rhayader ..	—	—	—	—	—	•	•	•	•
a St. Ann's Head	149	59	24, 25	42	21, 22	57·4	47·7	52·3	− 2·7	6	0·69	18	− 2	St. Ann's Head	5·1	+ 0·9	43	•	•	•	•	•	•
p Cardiff	202	60	26th	40	21st	58·3	42·6	50·1	− 3·7	5	1·19	30	+ 7	Cardiff	3·3	—	28	0	34	55·2	−0·3	57·5	+0·7
b, ENGLAND, S.W.																							
a Bath	66	69	25th	33	24th	61·4	43·4	52·0	− 2·2	4	0·33	8	− 7	Bath	•	•	•	•	•	57·3	−0·7	59·6	+0·3
a Shaftesbury	722	60	23, 25	37	21st	57·7	43·3	50·2	− 3·2	3	0·32	8	− 10	Shaftesbury ..	•	•	•	•	•	55·5	—	58·3	—
a Arlington	613	59	25th	36	24th	57·1	45·0	50·8	− 2·4	5	1·61	41	+ 11										
a Newquay	190	61	22, 24, 25	39	24th	58·7	49·7	54·0	− 1·9	5	0·67	17	− 3	Newquay ..	4·6	+ 0·1	39	•	•	57·6	—	59·4	—
a Cullompton	202	62	24, 25, 26	35	24th	60·9	45·0	52·6	− 1·4	4	0·48	12	− 6	Cullompton ..	4·0	+ 0·1	34	0	33	53·3	•	•	•
a Portland Bill	19	63	23rd	42	21st	60·7	48·4	54·3	− 2·2	3	0·24	6	− 9	Weymouth ..	4·9	—	41	•	•	•	•	•	•
p Plymouth	116	62	24th	41	24th	60·1	47·6	53·6	− 2·0	6	0·37	9	− 9	Plymouth ..	4·7	+ 0·3	40	0	37	56·3	−0·9	58·8	—
a Falmouth	167	63	24th	40	21st	60·9	46·6	53·4	− 2·1	5	0·48	12	− 10	Falmouth ..	5·3	+ 0·7	45	0	34	59·2	—	61·2	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	60	25th	36	21st	54·3	43·9	48·9	− 4·2	5	0·59	15	− 4	Malin Head ..	3·8	—	32	•	•	•	•	•	•
a Blacksod Point ..	37	60	25th	41	21, 22	56·4	44·7	50·3	− 3·7	7	1·26	32	+ 3	Markree Castle	2·8	− 0·4	24	3	27	54·1	−1·6	56·0	+0·2
p Markree Castle ..	122	62	25th	36	23rd	56·4	42·1	48·9	− 2·8	7	1·51	38	+ 14										
b, East .. { *p* Armagh	196	62	25th	38	21, 23, 27	57·3	41·7	49·1	− 3·0	7	0·56	14	− 3	Armagh	3·5	+ 0·1	30	1	29	53·2	−2·0	55·0	−0·5
a Donaghadee	39	65	25th	40	24, 27	56·9	44·9	50·6	− 2·5	5	0·51	13	− 4										
10. IRELAND, S.																							
p Dublin, City	47	66	25th	39	21st	58·3	45·1	51·4	− 2·7	5	0·76	19	+ 6	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
a Birr Castle	175	65	25th	36	21st	57·1	42·3	49·3	− 3·0	4	1·22	31	+ 16	Phœnix Park ..	4·3	+ 0·3	36	4	22	•	•	•	•
a Kilkenny	195	68	25th	35	21st	58·7	43·3	50·6	− 2·3	5	0·55	14	− 2	Dublin City ..	•	•	•	0	35	•	•	•	•
a Waterford	137	65	25th	39	24th	58·6	44·1	51·0	− 3·0	3	0·43	11	− 8	Birr Castle ..	3·9	+ 0·2	33	1	28	•	•	•	•
p Seskin, Carrick-on-Suir	535	68	25th	37	21st	59·6	43·1	51·0	—	3	0·34	9	—	Seskin	5·0	—	42	0	33	•	•	•	•
a Cahir	198	—	—	—	—	—	—	—	—	—	—	—	—										
a Foynes	50	67	26th	41	21st	60·0	49·0	54·2	+ 0·3	6	1·15	29	+ 10										
a Cahirciveen (Val. Obs.)	30	62	25th	44	22, 24, 27	57·7	47·9	52·6	− 2·3	4	0·55	14	− 14	Cahirciveen ..	4·0	+ 0·1	34	0	40	•	•	•	•
a Killarney	174	70	25th	41	23rd	61·4	47·3	54·0	− 0·4	6	0·54	14	− 11	Ballinacurra ..	—	—	—	•	•	•	•	•	•
a Roche's Point ..	32	65	25th	44	21st	59·7	46·6	52·8	− 2·1	5	0·34	9	− 11										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	63	25th	40	21st	59·9	49·7	54·6	− 2·4	6	0·49	13	-	Scilly	5·0	+ 0·3	42	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	65	23rd	44	21st	61·7	51·3	56·3	− 1·8	4	0·20	5	− 15	St. Heliers ..	2·9	− 2·2	24	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	65	23rd	43	21st	61·1	50·9	55·8	− 2·4	6	0·25	6	− 16	Guernsey† ..	3·2	− 2·0	27	0	39	58·4	−0·7	60·6	+0·2

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, September 27th, 1919.

DISTRICT AND STATION	Height.			Distribution of Wind.†										Extreme Velocities.							
	Above Mean Sea Level	Above Ground.	Above Building.	More than 17 m/s or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.			
				Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Veer from N.	Speed.	Mid Time.		Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m./s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aberdeen	153	105	52	—	—	22, 23, 27	10	80	61	17	0	304	16	22	17	25	23	12	55
Edinburgh	485	39	31	—	—	22, 24 to 26	35	54	79	0	0	180	17	24	9	26	24	8	50
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	25	1	22, 24 to 26	35	53	55	23	1	250	17	25	3	26	25	3	0
Paisley	188	81	15	—	—	—	—	78	88	2	0	270	11	25	10	23	26	2	40
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
South Shields	72	61	12	—	—	24 to 26	10	68	79	11	0	281	15	25	11	25	25	13	5
Spurn Head	66	40	‡	—	—	Instrument dismounted.		—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Gorleston	52	42	‡	—	—	26	4	112	52	0	0	—	10	22	15	18	26	12	0
Shoeburyness	103	90	‡	—	—	22, 26	3	86	78	1	0	191	12	22	15	19	26	12	55
4. MIDLAND COUNTIES																			
Benson	270	84	‡	—	—	—	—	49	82	37	0	225	10	26	11	16	26	13	40
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	83	64	21	0	—	11	26	14	19	23	3	30
S. Farnboro' (Pyestk Tr)	443	152	‡	—	—	Instrument out of adjustment.		—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	26	8	105	36	4	15	225	13	26	11	17	26	10	45
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	28	91	48	1	225	9	26	13	17	26	11	55
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	26	1	34	56	77	0	225	11	26	18	19	26	16	55
Fleetwood (Cup Anr.) ..	109	44	—	26	4	21, 22, 24 to 27	34	94	34	2	0	281	20	26	19	—	—	—	—
Southport	80	62	48	26	6	21, 22, 24 to 27	47	75	37	3	0	281	19	26	20	24	26	12	5
Holyhead	60	40	‡	—	—	21 to 26	53	88	26	1	0	281	16	26	17	22	26	11	10
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	22 to 24, 26	15	99	54	0	0	225	14	26	11	18	26	10	45
Plymouth	185	88	2	—	—	—	—	35	106	27	0	—	11	22	7	15	26	9	10
Lyme Regis	556	61	‡	—	—	—	—	33	96	37	2	—	10	26	12	16	23	0	5
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	21, 22, 24 to 26	30	82	55	1	0	270	16	26	11	—	—	—	—
Quilty	100	40	‡	—	—	22, 25, 26	41	57	47	6	17	—	14	26	3	20	26	2	20
Cahirciveen (Val. Obs.)	98	41	‡	—	—	22, 25, 26	5	91	50	22	0	235	13	26	2	18	26	0	35
Weaver Pt.	160	30	‡	—	—	22, 26	4	91	73	0	0	—	11	26	3	19	22	19	45
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	21	2	78	82	6	0	337	13	21	2	19	21	1	30

† More exactly the ranges adopted for this classification are > 17·1, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.
* Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

THIRTY-NINTH WEEK of 1919—September 21st to September 27th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	58	36	84·3	78·6	81·3	− 1·8	34	− 25	0	− 2	7	+ 2	2·30	58	+ 32	3·1	−0·3	26	997
Eastern.																			
1. SCOTLAND, EAST ...	65	32	85·8	78·2	81·8	− 1·5	43	− 19	1	− 1	5	+ 1	0·80	20	+ 5	4·3	+0·8	36	999
2. ENGLAND, N.E.	69	33	88·1	78·9	83·3	− 1·3	60	− 16	0	0	4	0	0·38	10	− 2	5·1	+1·0	43	1004
3. ENGLAND, EAST ...	69	33	88·1	79·1	83·4	− 1·8	61	− 23	0	0	3	0	0·32	8	− 6	4·2	−0·5	36	1007
4. MIDLAND COUNTIES ...	69	32	88·2	79·2	83·4	− 1·2	62	− 15	0	− 1	3	0	0·44	11	− 2	4·6	+0·5	38	1007
5. ENGLAND, S.E.	68	32	88·9	80·5	84·5	− 1·4	75	− 17	0	0	4	+ 1	0·48	12	− 3	3·3	−1·5	28	1009
Western.																			
6. SCOTLAND, WEST ...	62	32	86·1	78·8	82·3	− 1·8	47	− 23	0	− 1	6	+ 2	1·33	34	+ 8	4·7	+1·2	39	1002
7. ENGLAND, N.W.	67	35	87·0	80·6	83·6	− 1·2	64	− 15	0	0	5	+ 1	1·00	25	+ 5	4·5	+0·7	38	1006
8. ENGLAND, S.W.	69	33	88·2	80·5	84·2	− 1·3	71	− 17	0	− 1	5	+ 1	0·63	15	− 6	4·7	+0·5	39	1009
9. IRELAND, NORTH ...	65	36	86·6	79·3	82·0	− 2·4	43	− 30	0	0	6	+ 1	0·94	24	+ 2	3·2	−0·2	26	1004
10. IRELAND, SOUTH ...	70	35	87·9	80·6	84·1	− 1·1	70	− 13	0	0	5	+ 1	0·69	18	− 1	4·1	+0·2	34	1010
11. ENGLISH CHANNEL ...	65	40	89·1	83·3	86·1	− 1·2	95	− 15	0	0	5	+ 1	0·31	8	− 11	3·7	−1·3	31	1012

THE SEASON (Autumn).—Aggregates, &c., for the Period of 4 Weeks, August 31st to September 27th, 1919.

0. SCOTLAND, NORTH ...	71	33	87·0	80·7	83·7	± 0·3	258	− 17	0	− 2	21	+ 3	5·09	129	+ 42	4·3	+0·8	34	1009
Eastern.																			
1. SCOTLAND, EAST ...	75	27	88·8	80·0	84·2	− 0·1	297	+ 6	8	+ 5	16	+ 2	2·33	60	+ 9	5·2	+1·2	41	1010
2. ENGLAND, N.E.	85	29	90·4	81·6	85·8	+ 0·3	366	+ 17	0	0	13	+ 1	1·49	39	0	4·7	+0·1	37	1014
3. ENGLAND, EAST ...	88	30	91·8	82·5	86·9	+ 0·5	421	+ 26	0	0	9	− 2	0·82	21	− 23	5·4	+0·3	43	1015
4. MIDLAND COUNTIES ...	90	30	90·8	81·7	86·0	+ 0·3	375	+ 12	0	− 2	13	+ 2	1·65	42	− 1	4·4	−0·1	35	1016
5. ENGLAND, S.E.	85	30	92·0	83·4	87·5	+ 0·5	451	+ 30	0	0	9	− 2	1·37	35	− 13	5·5	+0·1	44	1016
Western.																			
6. SCOTLAND, WEST ...	73	32	88·4	81·0	84·5	− 0·4	306	− 13	3	+ 2	17	+ 3	3·72	95	+ 11	4·8	+0·6	38	1013
7. ENGLAND, N.W.	84	32	89·5	82·4	85·8	0·0	365	+ 4	0	0	15	+ 1	2·35	59	− 4	4·9	+0·4	39	1014
8. ENGLAND, S.W.	86	31	90·5	83·2	86·7	+ 0·3	410	+ 13	0	− 1	15	+ 1	1·88	47	− 17	4·7	−0·2	37	1016
9. IRELAND, NORTH ...	75	30	89·2	81·4	84·9	− 0·3	320	− 17	0	0	19	+ 2	2·73	69	+ 1	4·6	+0·7	37	1013
10. IRELAND, SOUTH ...	75	35	89·9	82·4	86·0	0·0	375	+ 1	0	0	16	+ 1	2·13	54	− 12	5·0	+0·5	40	1016
11. ENGLISH CHANNEL ...	83	40	91·7	85·5	88·5	+ 0·4	500	+ 19	0	0	12	− 1	2·21	55	− 1	5·8	−0·3	46	1017

THE YEAR 1919.—Aggregates, &c., for the Period of 39 Weeks, December 29th, 1918, to September 27th, 1919.

0. SCOTLAND, NORTH ...	78	11	83·7	77·6	80·5	− 0·6	1647	−170	680	+ 139	168	−11	31·09	792	− 87	3·8	+0·2	28	1011
Eastern.																			
1. SCOTLAND, EAST ...	78	5	84·7	76·9	80·7	− 0·7	1861	−168	795	+ 175	138	−14	18·59	473	− 74	4·4	+0·2	33	1012
2. ENGLAND, N.E.	85	11	85·8	78·4	81·9	− 0·4	2247	− 79	578	+ 106	139	+ 3	18·09	461	+ 20	4·3	−0·3	32	1013
3. ENGLAND, EAST ...	88	10	86·6	78·6	82·4	− 0·5	2488	−181	580	+ 86	127	− 4	17·82	456	+ 33	4·7	−0·3	35	1014
4. MIDLAND COUNTIES ...	90	9	86·5	78·4	82·3	− 0·4	2480	−119	628	+ 104	129	− 1	21·20	539	+ 67	4·3	−0·2	33	1014
5. ENGLAND, S.E.	86	16	87·1	79·4	83·1	− 0·4	2713	−119	451	+ 72	125	− 2	20·61	521	+ 64	4·8	−0·4	37	1014
Western.																			
6. SCOTLAND, WEST ...	83	14	85·3	78·2	81·6	− 0·6	2039	−183	542	+ 125	150	− 9	27·81	707	−107	4·7	+0·3	35	1013
7. ENGLAND, N.W.	84	16	85·6	79·1	82·2	− 0·5	2276	−147	494	+ 112	137	− 7	21·77	553	− 60	4·5	0·0	34	1013
8. ENGLAND, S.W.	86	15	86·5	79·6	82·9	− 0·4	2542	−125	409	+ 107	139	− 4	26·28	667	+ 17	5·0	0·0	38	1015
9. IRELAND, NORTH ...	78	22	85·6	78·9	82·1	− 0·5	2138	−171	437	+ 97	168	− 8	23·71	597	− 82	4·2	+0·2	32	1012
10. IRELAND, SOUTH ...	80	22	86·7	79·7	83·0	− 0·4	2526	−128	362	+ 102	158	+ 3	23·66	602	−101	4·5	0·0	34	1015
11. ENGLISH CHANNEL ...	85	26	87·1	81·7	84·3	− 0·3	2944	−127	137	+ 32	138	− 8	27·39	692	+165	5·5	−0·4	42	1016
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: October 3rd, 1919.

Printed by HIS MAJESTY'S STATIONERY OFFICE.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 40.

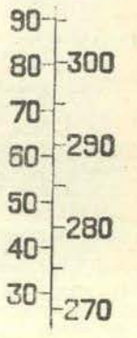
THE FORTIETH WEEK OF 1919.

SUNDAY, SEPTEMBER 28TH, TO SATURDAY, OCTOBER 4TH, 1919.

Price 6d., Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d.

I.—GENERAL SUMMARY. [First published in 1878.]

The weather over our northern and western districts was largely under the influence of Atlantic depressions, but in the south and east anticyclonic conditions prevailed. Over Scotland North the mean temperature for the week was equal to the normal, but in all other Districts it was below it, the largest deficit being 2·5 a. in England East and England South. The warmest day in most Districts was Saturday, when readings of 292 a or 293 a. were recorded over the central and north-eastern parts of the Kingdom. The lowest minima occurred either on the 28th or 29th; readings of 269 a. were registered at West Linton (Pentland Hills) and Marlborough (North Downs); at the former station the thermometer on the grass went down to 265 a., and at Rhayader (Brecon) to 264 a. Rainfall was slightly more than normal in Ireland and Scotland West, elsewhere it exceeded it. Several stations in Scotland West had more than 20mm. on the 29th, while on the 30th the fall at Blacksod Point was 24mm., and at Cahirciveen on the same day as much as 36mm. fell. Bright sunshine was less than normal in Ireland and Scotland, but in all the English Districts the amount registered exceeded the normal, in some regions by as much as 3 or 3½ hr. per day. Thunder was heard in the eastern counties on the 1st and 2nd, and there was a thunderstorm at Ventnor at midnight on October 1st. Solar halos were seen at Oxford and Tenbury on the 29th and lunar halos in eastern Scotland on the 2nd and 3rd. There was a very wide-spread display of aurora borealis on the night of 1st–2nd, the phenomenon being observed as far south as the Isle of Wight and off the south coast of Ireland; in many places it was described as brilliant.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E. Shoeburyness.†		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	16	7·4	24	4·3	9	2·7	9	2·0	18	5·6	12	3·9	18	5·1	19	5·6
North	10	3·5	1	1·5	13	3·3	6	2·8	10	4·6	15	4·1	1	3·3	6	1·9
West	16	5·2	20	3·3	12	2·6	6	2·1	22	4·8	18	3·9	15	5·3	12	3·7
East	7	2·9	3	3·0	7	3·0	8	1·6	4	1·4	10	3·2	5	1·4	12	0·9
Calm	2	—	2	—	5	—	13	—	0	—	0	—	4	—	3	—

* For Deerness the week ends at midnight on Friday. † Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c., is printed on a separate sheet, *see below*, Note (1).		DISTRICTS OF THE BRITISH ISLES.												
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Deficient	Moderate	Deficient	Moderate	Moderate	Deficient	Moderate	Moderate	Deficient
	Rainfall ...	Moderate	Light	Very light	Light	Light	Light	Moderate	Light	Light	Moderate	Moderate	Light
	Sunshine ...	Scanty	Moderate	Very abundant	Abundant	Very abundant	Very abundant	Moderate	Abundant	Very abundant	Scanty	Moderate	Very abundant

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

AUTUMN. 5 weeks from August 31st, 1919.	Warmth ...	1, 2, 2	2, 2, 1	2, 2, 1	2, 1, 2	2, 3, 0	2, 1, 2	2, 1, 2	2, 1, 2	1, 2, 2	2, 1, 2	2, 2, 1	1, 2, 2
	Rainfall ...	2, 3, 0	1, 3, 1	1, 3, 1	0, 3, 2	0, 4, 1	0, 3, 2	1, 3, 1	0, 2, 3	0, 2, 3	0, 4, 1	1, 2, 2	1, 1, 3
	Sunshine ...	3, 1, 1	4, 1, 0	3, 1, 1	2, 3, 0	2, 2, 1	2, 2, 1	3, 1, 1	4, 1, 0	2, 1, 2	3, 1, 1	2, 3, 0	2, 2, 1

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{5}{9}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(25457—19) Wt. 162—833/512 625 10/19 H. St. G. 17/ 36

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM

['TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.				
		Highest	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft	
						Of Daily Max.	Of Daily Min.	Daily Mean.										Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average.
0. SCOTLAND, N.	Ft.	°F.		°F		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F	°F	°F.
a, Islands.. a Lerwick ..	54	55	4th	35	29th	53·0	43·4	48·1	− 0·3	6	0·44	11	− 14	Houton Bay ..	—	—	—	*	*	*	*	*	*
a Houton Bay, Orkney	520	—	—	—	—	—	—	—	—	—	—	—	—	Stornoway ..	1·9	− 1·2	17	*	*	*	*	*	*
a Stornoway	51	59	4th	35	28th	55·1	43·7	49·2	+ 0·1	7	1·46	37	+ 4	Castlebay ..	1·1	—	10	*	*	*	*	*	*
a Castlebay, Barra I. ..	37	57	4th	42	28th	54·6	48·0	51·2	—	7	0·84	21	—										
b, Mainland. a Wick	81	65	4th	31	29th	54·7	41·7	48·0	− 1·0	6	0·52	13	− 6										
a Strathpeffer	125	65	4th	33	28th	58·7	43·0	50·6	+ 1·6	1	0·05	1	− 16										
p Glencarron	500	—	—	—	—	—	—	—	—	—	—	—	—										
a Fort Augustus..	62	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William	171	59	4th	33	28th	56·0	44·6	50·1	0·0	7	1·52	39	− 8										
1. SCOTLAND, E.																							
a Nairn	82	66	4th	33	29th	57·9	41·7	49·6	+ 0·9	4	0·10	3	− 11	Nairn	3·8	—	34	*	*	*	*	*	*
p Gordon Castle	101	68	4th	36	28, 29	58·1	44·4	51·1	+ 1·5	3	0·10	3	− 14	Gordon Castle..	3·7	—	33	*	*	*	*	*	*
a Aberdeen	46	62	4th	35	28th	56·1	42·4	49·1	− 0·6	5	0·17	4	− 12	Aberdeen ..	3·2	− 0·4	28	1	26	*	*	50·9	− 0·6
a Balmoral	930	61	4th	28	29th	54·0	39·6	46·6	+ 0·5	2	0·04	1	− 18	Balmoral ..	*	*	*	2	25	*	*	*	*
p Crieff	432	58	2, 3, 4	33	28th	54·9	41·9	48·2	− 1·4	4	0·34	9	− 12	Crathes	3·3	− 0·1	29	2	24	48·9	−2·9	51·2	−1·5
a Dundee	244	60	4th	30	28th	56·6	39·7	47·9	− 1·6	3	0·29	7	− 8	Dundee	3·0	—	27	2	22	49·1	—	*	*
a Leith	30	63	4th	35	28th	57·0	42·1	49·3	− 1·8	1	0·08	2	− 11	Leith	*	*	*	1	28	*	*	*	*
p Edinburgh	441	64	4th	35	28th	56·1	44·1	49·9	0·0	1	0·06	2	− 12	Edinburgh ..	3·1	− 0·5	27	1	28	*	*	*	*
a West Linton	789	59	4th	24	28th	53·0	38·9	45·7	− 0·9	4	0·42	11	—	West Linton ..	2·3	—	20	2	17	*	*	*	*
p Marchmont	498	62	3rd	33	28th	56·0	39·1	47·3	− 1·5	2	0·11	3	− 16	Marchmont .	3·4	+ 0·2	30	*	*	*	*	*	*
6. a, SCOTLAND, W																							
a Ford (Argyll)	149	59	3rd	36	29th	54·0	44·6	49·2	—	7	2·42	62	—	Ford (Argyll) ..	*	*	*	2	22	51·1	—	53·2	—
p Glasgow Observatory	180	59	4th	34	28th	54·9	44·9	49·8	− 0·2	4	0·48	12	− 8	Glasgow.. ..	1·8	− 0·7	16	2	21	*	*	*	*
p Rothesay	200	58	3rd	36	28th	53·9	45·0	49·3	− 1·3	7	1·46	37	+ 11	Rothesay ..	1·7	—	15	1	29	49·9	—	52·0	−0·6
a Kilmarnock	90	60	4th	29	28th	56·0	43·0	49·3	0·0	5	0·60	15	− 6	Kilmarnock ..	1·8	—	16	*	*	49·6	—	51·9	—
a Colmonell	170	60	4th	37	28th	56·6	46·9	51·6	+ 1·1	5	1·11	28	+ 3	Colmonell ..	*	*	*	0	32	*	*	*	*
p Cally, Gatehouse ..	120	57	4th	29	28th	55·0	42·3	48·5	− 1·0	5	1·40	36	+ 9	Dumfries ..	2·5	—	22	2	25	49·7	−2·2	52·3	−2·5
p Dumfries	160	57	30, 4	32	28th	54·9	42·6	48·6	− 1·8	2	0·70	18	− 2	Eskdalemuir ..	2·5	—	22	2	21	*	*	*	*
a Eskdalemuir	794	55	4th	27	28th	52·4	35·7	43·8	—	4	1·06	27	—										
b, I. OF MAN p Douglas	277	58	3rd	40	28th	55·7	44·7	50·0	− 1·5	3	0·42	11	− 14	Douglas	4·2	+ 0·4	37	0	35	*	*	*	*
2. ENGLAND, N.E																							
a Alnwick Castle ..	210	67	4th	33	28th	58·6	41·6	49·9	0·0	2	0·16	4	− 14										
a Tynemouth	118	62	3rd	37	28, 29	57·4	41·3	49·1	− 1·5	2	0·09	2	− 13	Cockle Park ..	4·4	+ 0·8	39	2	29	47·0	−3·4	50·7	−1·1
p Durham	336	67	4th	31	28th	58·9	38·7	48·5	− 1·4	2	0·07	2	− 14	Durham ..	5·2	+ 1·9	46	5	20	*	*	*	*
a North .. p Rounton	249	66	4th	29	28th	57·6	38·9	48·0	− 1·6	2	0·07	2	− 13	Rounton ..	*	*	*	4	22	50·6	*	*	*
a West Witton	605	68	4th	31	28th	57·6	39·7	48·4	—	2	0·21	5	—	West Witton ..	*	*	*	1	29	48·1	—	50·8	—
p Scarborough	100	61	3rd	40	28, 29	58·7	43·1	50·7	− 1·2	3	0·12	3	− 13	Scarborough† ..	6·6	+ 2·9	58	*	*	*	*	57·0	—
p York	56	65	4th	32	28th	59·4	39·3	49·1	− 2·1	1	0·07	2	− 12	York	5·5	+ 2·3	48	—	—	52·0	−2·3	54·4	−0·6
a Spurn Head	26	59	30th	41	29th	56·4	44·0	50·0	− 2·8	1	0·12	3	− 9	Spurn Head ..	*	*	*	*	*	*	*	*	*
b, South .. a Lincoln	68	62	1, 4	33	28th	58·3	37·3	47·5	− 4·1	1	0·05	1	− 12	Lincoln	*	*	*	0	31	50·6	−3·1	54·7	−0·6
a Fulbeck	180	62	4th	31	28th	59·0	36·3	47·3	− 4·4	2	0·05	1	− 12	Fulbeck ..	6·7	+ 2·7	59	*	*	—	—	—	—
														Skegness ..	7·5	+ 3·2	66	*	*	*	*	*	*
3. ENGLAND, E.																							
p Cromer	196	65	1st	33	30th	58·9	40·9	49·6	− 3·3	4	0·38	10	− 2	Cromer	7·8	+ 4·0	68	*	*	*	*	*	*
a Little Massingham ..	280	64	1st	33	29th	57·7	36·4	46·7	− 4·8	3	0·30	8	− 7	Lit. Massingham	7·6	+ 4·1	67	*	*	*	*	*	*
a Yarmouth	13	60	4th	33	4th	57·6	39·4	48·2	− 4·6	2	0·25	6	− 8	Yarmouth ..	7·6	—	67	0	32	53·1	−2·3	55·7	−1·7
a Norwich	93	64	1st	32	29th	59·0	36·6	47·5	− 4·6	2	0·40	10	− 5	Norwich ..	7·6	—	67	3	25	50·1	*	*	*
a Geldeston	37	—	—	—	—	—	—	—	—	—	—	—	—	Geldeston ..	—	—	—	*	*	*	*	*	*
p Cambridge	41	64	1st	28	29th	59·9	33·7	46·4	− 6·0	1	0·04	1	− 10	Cambridge ..	7·0	+ 3·2	61	6	25	52·2	−2·8	56·4	−0·5
a Clacton-on-Sea ..	54	59	1, 3, 4	34	29th	57·6	40·3	48·7	− 4·6	1	0·21	5	− 5	Clacton	6·5	+ 2·5	57	1	30	52·9	−3·2	56·9	−0·5
a Rothamsted	424	62	1st	30	29th	56·6	36·0	46·0	− 5·2	2	0·12	3	− 11	Rothamsted ..	7·6	+ 4·0	67	6	22	50·4	*	*	*
p Tottenham	51	62	1, 4	36	4th	58·9	41·6	50·0	—	2	0·11	3	—	Tottenham ..	6·2	—	54	2	30	*	*	57·1	−1·2
														S'thend-on-Sea	6·0	—	53	0	34	56·1	—	—	—
4. MIDLAND COUNTIES.																							
a North .. a Harrogate	479	66	4th	34	28th	57·3	39·7	48·2	− 1·4	1	0·15	4	− 11	Harrogate ..	6·2	+ 2·9	54	3	28	49·8	−2·4	52·0	−0·9
p Sheffield	429	67	4th	35	28th	57·6	40·6	48·9	—	2	0·08	2	—	Sheffield.. ..	5·7	+ 2·7	50	4	25	50·2	−2·8	53·5	−0·8
p Buxton	987	66	4th	30	28th	54·6	35·0	44·5	—	2	0·47	12	− 12	Buxton	5·3	—	46	4	28	47·6	−3·8	52·7	−0·5
b, East .. a Bawtry	65	65	4th	31	28th	58·3	38·0	47·9	− 2·7	1	0·07	2	− 10	Worksop ..	6·2	+ 3·2	54	5	24	50·0	—	53·1	—
a Nottingham	82	65	4th	30	28, 4	58·9	34·4	46·3	− 4·7	2	0·24	6	− 6	Nottingham ..	5·9	+ 2·8	52	4	27	47·3	−5·9	53·7	−1·8
p Birmingham, Edgbn.	535	65	4th	35	29th	57·6	39·7	48·4	− 2·7	1	0·20	5	− 8	Birmingham ..	6·1	+ 3·5	54	3	20	47·9	−4·1	52·1	−0·6
a Raunds	203	63	1, 4	28	29th	59·9	33·7	46·4	− 5·1	2	0·15	4	− 8	Raunds	7·5	—	66	5	20	52·4	—	55·4	—
p Oxford	208	60	1, 4	30	4th	58·0	35·4	46·4	− 5·5	2	0·23	6	− 7	Oxford	6·6	+ 3·0	58	6	24	*	*	*	*
c, West .. a Cheadle (N. Staffs.) ..	646	65	4th	32	29th	57·0	37·7	47·1	− 2·7	2	0·39	10	− 6	Cheadle	*	*	*	0	31	*	*	*	*
p Tenbury	313	67	4th	27	29th	59·6	32·9	45·9	− 4·7	1	0·09	2	− 10	Tenbury	*	*	*	6	24	50·4	—	—	—
p Ross-on-Wye	201	65	4th	27	29th	59·7	34·6	46·8	− 4·5	1	0·09	2	− 12	Ross-on-Wye ..	7·3	—	64	3	22	—	—	—	—
a Clifton	226	61	4th	34	29th	57·9	39·6	48·5	− 4·4	1	0·12	3	− 19	Clifton	7·5	—	66	0	34	*	*	*	*
5. ENGLAND, S.E.																							
a Marlborough	424	60	1, 2, 4	25	29th	58·4	31·1	44·3	− 5·9	4	0·18	5	− 13	Worthing ..	7·7	+ 3·3	68	1	30	53·3	−2·8	57·7	−0·2
p Salisbury (Wilton) ..	180	67	1st	27	29th	60·0	32·4	45·8	− 5·8	1	0·05	1	− 19	Marlborough ..	6·2	+ 2·9	54	6	23	50·5	—	55·2	—
a Wisley, Surrey ..	150	65	1st	29	30th	59·3	34·6	46·6	− 5·1	2	0·04	1	− 16	Salisbury ..	*	*	*	4	26	52·1	—	*	*
a Tunbridge Wells ..	354	61	4th	30	29th	58·7	37·1	47·6	− 4·8	2	0·19	5	− 15	Wisley	7·0	+ 3·3	61	6	21	51·6	−3·4	55·6	−0·9
a Margate	51	67	1st	43	30th	58·4	48·3	53·2	− 1·1	2	0·23	6	− 10	Tunbridge Wells	6·1	+ 2·1	54	3	24	53·6	−2·6	57·0	—
														Margate	5·4	+ 1·5	47	1	30	55·6	+0·3	59·5	+2·6
a Dungeness	21	64	1, 2	33	29th	60·3	42·0	50·9	− 3·1	2	0·14	4	− 14	Folkestone ..	5·8	—	51	*	*	*	*	54·8	—
p St. Leonards	178	—	—	—	—	—	—	—	—	—	—	—	—	St. Leonards ..	7·0	+ 2·7	61	—	—	—	—	—	—
p Southampton	64	63	4th	32	29th	59·9	39·4	49·4	− 4·5	1	0·04	1	− 19	Southampton ..	7·7	+ 3·8	68	4	25	*	*	*	*
a Ventnor	59	65	2nd	41	29th	60·9	45·7	53·1	− 2·4	2	0·43	11	− 10	Ventnor	8·1	+ 4·0	71	*	*	*	*	*	*
LONDON. a Richmond (Kew Obs.)	18	65	1st	32	29, 30	58·4	36·6	47·2	− 5·2	2	0·09	2	− 13	Richmond ..	7·0	+ 3·6	61	5	19	50·9	−3·8	55·9	−0·1
a Westminster	27	65	1st	34	29, 30	60·1	39·6	49·6	− 4·1	2	0·05	1	− 12	Westminster ..	5·8	+ 3·1	51	4	27	*	*	*	*
ag Greenwich	149	65	1st	31	29th	59·9	36·7	48·0	− 5·8	2	0·15	4	− 9	Greenwich ..	6·8	+ 2·8	60	6	19	*	*	*	*
a Hampstead	450	63	1st	35	29th	57·6	40·7	48·9	—	2	0·10	3	—	Hampstead ..	6·9	—	61	4	25	*	*	*	*
ag Camden Square ..	110	67	1st	32	29th	61·9	37·6	49·4	− 4·0	2	0·09	2	− 12	Camden Square	5·0	+ 2·3	44	1	30	*	*	*	*
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	58	4th	33	28th	54·1	42·7	48·2	− 1·9	3	0·77	20	− 3	Aspatria.. ..	2·8	− 0·9	25	1	30	49·6	−1·5	51·9	−1·3
p Newton Rigg	559	63	4th	29	28th	56·4	38·7	47·3	− 1·8	3	0·10	3	− 17	Newton Rigg ..	3·3	0·0	29	4	25	50·6	−2·2	52·7	−0·5
p Stonyhurst	375	60	4th	33	28th	54·9	41·3	47·9	− 2·4	2	0·43	11	− 15	Stonyhurst ..	5·6	+ 2·4	49	2	26	*	*	*	*
p Blackpool	66	63	4th	36	28th	58·1	43·0	50·3	− 1·3	3	0·61	15	− 6	Blackpool ..	5·0	+ 1·3	44	3	20	52·4	—	54·1	—
a Southport	37	63	4th	35	28th	56·0	42·3	49·0	− 2·6	3	0·33	8	− 12	Southport ..	5·7	+ 2·1	50	1	24	50·1	−3·5	54·5	−1·4
														Hoylake ..	5·9	+ 2·4	52	*	*	*	*	*	*
a Liverpool (Bidston) ..	188	61	4th	42	28th	55·7	44·3	49·8	− 2·2	3	0·39	10	− 8	Liverpool ..	4·7	—	41	0	32	*	*	*	*
a Hawarden Bridge ..	22	62	3, 4	36	29th	58·6	41·6	49·9	− 2·5	2	0·33	8	− 7	Manchester(City)	4·0	+ 1·4	35	1	29	49·2	−4·8	56·1	−0·4
p Manchester (Whit. Pk.)	125	66	4th	32	28th	57·9	39·3	48·3	− 4·0	2	0·48	12	− 6	Whitworth Park	4·0	+ 1·5	35	*	*	*	*	*	*
b, NORTH WALES.																							
p Llandudno	16	63	4th	39	28th	57·4	44·7	50·9	− 2·4	3	0·20	5	− 14	Llandudno ..	5·2	+ 1·3	46	*	*	*	*	*	*
a Holyhead	15	59	4th	44	29th	57·3	47·7	52·4	− 0·8	2	0·09	2	− 19	Holyhead ..	4·3	—	38	0	34½	*	*	*	*
a Beddgelert	309	—	—	—	—	—	—	—	—	—	—	—	—										
a Aberdovey	52	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.
8. *a.* SOUTH WALES.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.
a Aberystwyth	59	61	4th	37	28th	57·9	45·3	51·4	—	2	0·32	8	—
a Rhayader	767	65	4th	28	29th	56·1	38·9	46·2	—	3	0·52	13	—
a St. Ann's Head	149	59	4th	43	28, 29	56·4	47·7	51·9	− 1·8	2	0·16	4	− 18
p Cardiff	202	61	4th	35	29th	57·7	40·9	49·1	− 2·9	1	0·22	6	− 19
b. ENGLAND, S.W.													
a Bath	66	63	4th	28	29th	59·6	35·7	47·3	− 4·9	2	0·17	4	− 13
a Shaftesbury	722	62	4th	36	29th	56·9	40·4	48·4	− 3·1	1	0·09	2	− 19
a Arlington	613	62	4th	32	29th	56·9	40·5	48·5	− 3·0	3	0·82	21	− 13
a Newquay	190	60	4th	35	29th	57·7	41·3	49·3	− 5·2	2	0·08	2	− 20
a Cullompton	202	65	4th	28	29th	60·7	34·4	47·2	− 4·9	2	0·29	7	− 14
a Portland Bill	19	61	4th	43	28, 29	58·3	46·9	52·4	− 2·5	2	0·09	2	− 16
p Plymouth	116	64	4th	36	29th	60·1	41·9	50·7	− 3·2	3	0·35	9	− 12
a Falmouth	167	63	3rd	39	29th	60·0	42·3	50·9	− 3·1	2	0·09	2	− 24
9. IRELAND, N.													
a West .. { *a* Malin Head	208	—	—	—	—	—	—	—	—	—	—	—	—
{ *a* Blacksod Point ..	37	59	4th	41	28th	56·9	47·3	52·0	− 0·7	7	2·54	64	+ 37
{ *p* Markree Castle ..	122	62	4th	33	28th	58·1	44·0	50·8	+ 0·5	6	1·10	28	+ 6
b, East .. { *p* Armagh	196	62	4th	34	28th	57·7	43·9	50·6	0·0	4	0·73	19	+ 4
{ *a* Donaghadee .. .	39	61	3rd	41	28–30	57·7	44·0	50·7	− 1·0	2	0·59	15	− 1
10. IRELAND, S.													
p Dublin, City	47	65	4th	37	28th	58·0	45·6	51·6	− 0·6	5	0·48	12	− 1
a Birr Castle	175	64	4th	31	28, 29	58·6	42·1	50·1	− 0·1	4	0·53	14	0
a Kilkenny	195	66	4th	31	28th	59·9	41·3	50·3	− 0·6	4	0·35	9	− 6
a Waterford	137	64	4th	35	28th	59·9	43·4	51·4	− 0·9	1	0·42	11	− 7
p Seskin, Carrick-on-Suir	535	66	4th	35	28th	59·1	44·0	51·3	—	1	0·30	8	—
a Cahir	199	65	4th	32	28th	59·6	44·1	51·6	+ 0·6	5	0·48	12	—
a Foynes	50	65	3, 4	39	28th	59·9	47·4	53·5	+ 1·4	5	1·02	26	+ 8
a Cahirciveen (Val. Obs.)	30	62	3rd	40	28, 29	57·7	48·4	52·9	− 0·6	6	1·85	47	+ 20
a Killarney	174	64	3, 4	35	28th	60·0	47·4	53·5	+ 1·0	5	1·42	36	+ 11
a Roche's Point	32	62	4th	42	28th	58·4	48·3	53·2	− 0·2	6	0·62	16	− 3
11. ENGLISH CHANNEL													
a Scilly, St. Mary's ..	131	61	1, 3, 4	45	29, 30	59·1	48·1	53·4	− 1·9	2	0·16	4	− 16
a Jersey, St. Aubins ..	25	62	4th	43	4th	61·3	47·6	54·3	− 1·6	2	0·35	9	− 14
a Guernsey (Villa Carey)	180	64	4th	44	29th	60·9	47·9	54·2	− 1·8	2	0·09	2	− 22

STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.
	hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
Aberystwyth ..	6·6	+ 2·6	58	*	*	*	*	*	*
Rhayader ..	6·8	—	60	5	15	*	*	*	*
St. Ann's Head ..	6·4	+ 2·6	56	*	*	*	*	*	*
Cardiff	6·9	—	61	1	28	51·5	-3·2	56·2	-0·1
Bath	*	*	*	*	*	53·3	-4·1	57·7	-0·8
Shaftesbury ..	*	*	*	*	*	52·7	—	56·8	—
Newquay ..	8·0	+ 3·8	70	*	*	54·6	—	58·1	—
Cullompton ..	7·3	+ 3·8	64	3	27	52·7	*	*	*
Weymouth ..	8·4	—	74	*	*	*	*	*	*
Plymouth ..	8·3	+ 4·2	73	0	31	52·6	-3·7	57·4	—
Falmouth ..	8·4	+ 4·1	74	1	30	56·5	—	59·9	—
Malin Head ..	—	—	—	*	*	*	*	*	*
Markree Castle	2·3	- 0·5	20	1	28	53·9	-0·7	55·0	-0·3
Armagh	2·5	- 0·4	22	1	28	51·9	-2·3	53·8	-1·2
Trinity Coll. ..	*	*	*	—	—	—	—	—	—
Phœnix Park ..	4·2	+ 0·4	37	6	20	*	*	*	*
Dublin City ..	*	*	*	0	33	*	*	*	*
Birr Castle ..	3·6	+ 0·1	32	1	24	*	*	*	*
Seskin	5·8	—	51	1	29	*	*	*	*
Cahirciveen ..	3·2	- 0·4	28	0	34	*	*	*	*
Ballinacurra ..	—	—	—	*	*	*	*	*	*
Scilly	7·3	+ 3·1	64	*	*	*	*	*	*
St. Heliers ..	7·3	+ 2·8	64	*	*	*	*	*	*
Guernsey† ..	8·3	+ 3·7	73	0	31	56·0	-2·2	59·6	-0·2

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, October 4th, 1919.

DISTRICT AND STATION	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N. Deerness (Cup Anr.)** ..	188	16	5	—	—	27, 29 to 2	23	98	42	5	0	146	14	1	12	—	—	—	—
1. SCOTLAND, E. Dyce	305	75	15*	—	—	—	—	12	97	46	13	225	9	29	14	18	29	15	25
Aberdeen	153	105	52	—	—	—	—	35	98	35	0	214	10	29	14	19	29	13	55
Edinburgh	485	39	31	29	2	29	6	51	95	14	0	180	18	29	14	26	29	15	25
6. SCOTLAND, W. Eskdalemuir	825	50	22	29	2	29	12	49	67	38	0	240	19	29	20	26	29	19	30
Paisley	188	81	15	—	—	29	1	31	111	25	0	203	11	29	12	22	29	11	25
2. ENGLAND, N.E. Alnwick Castle	340	70	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
South Shields	72	61	12	—	—	—	—	33	103	32	0	191	9	1	11	17	29	13	15
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E. Gorleston	52	42	‡	—	—	—	—	84	74	0	10	—	11	28	13	16	28	13	5
Shoeburyness	103	90	‡	—	—	—	—	33	112	23	0	23	9	28	12	13	28	11	39
4. MIDLAND COUNTIES. Benson	270	84	‡	—	—	—	—	7	86	75	0	23	7	28	13	16	2	15	20
5. ENGLAND, S.E. Brighton	261	53	6	—	—	—	—	13	122	33	0	—	8	28	13	13	28	11	15
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument out of adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	55	98	6	9	22	10	28	10	14	28	10	30
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	8	76	76	8	34	7	28	13	13	2 28	13 12	5 50
7. ENGLAND, N.W. Carnforth	246	56	23	—	—	—	—	—	48	120	0	203	7	29	20	13	29	15	5
Fleetwood (Cup Anr.) ..	109	44	—	—	—	29, 2	11	71	76	10	0	293	13	2	6	—	—	—	—
Southport	80	62	48	—	—	2	3	76	81	8	0	293	12	2	9	16	29	16	40
Holyhead	60	40	‡	—	—	29, 1, 2	23	107	36	2	0	304	14	2	3	19	29	14	25
8. ENGLAND, S.W. Pendennis Castle§ ..	256	65	24	—	—	28, 1	6	70	68	9	15	360	13	28	12	18	28	12	15
Plymouth	185	88	2	—	—	—	—	19	80	69	0	—	7	28	12	15	2	12	40
Lyme Regis	556	61	‡	—	—	—	—	23	58	87	0	—	8	2	15	13	2	15	0
10. IRELAND, S. Kingstown (Cup Anr.) ..	49	27	—	—	—	29, 1, 2	7	81	59	21	0	270	13	2	11	—	—	—	—
Quilty	100	40	—	—	—	29 to 2	28	81	50	7	2	—	14	1	16	22	1	21	10
Cahirciveen (Val. Obs.)	98	41	—	—	—	30	12	101	34	21	0	180	13	30	13	20	30	14	45
Weaver Pt.	180	30	—	—	—	30, 1	18	66	78	6	0	—	14	30	24	19	30	23	40
11. ENGLISH CHANNEL Scilly	150	32	‡	—	—	1, 2	10	51	27	63	17	293	16	1	21	21	1	20	35

† More exactly the ranges adopted for this classification are > 17·2, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting.
§ Direction from the Robinson Anemometer at Falmouth Observatory.
* Above tops of trees.
** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FORTIETH WEEK of 1919—September 28th to October 4th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ..	65	31	86·1	79·3	82·6	+ 0·2	50	− 2	0	− 2	5	0	0·80	20	− 11	1·9	−1·2	17	1010
Eastern.																			
1. SCOTLAND, EAST ...	68	24	86·3	78·2	82·1	− 0·5	48	− 7	2	− 1	3	− 1	0·17	4	− 13	3·3	0·0	29	1012
2. ENGLAND, N.E.	67	29	87·6	77·5	82·4	− 1·3	56	− 9	5	+ 4	2	− 2	0·09	2	− 13	6·0	+2·3	52	1016
3. ENGLAND, EAST ...	65	28	87·6	76·3	81·8	− 2·5	58	− 15	11	+10	2	− 2	0·23	6	− 7	7·2	+3·4	63	1018
4. MIDLAND COUNTIES ...	67	27	87·7	75·6	81·4	− 2·1	59	− 7	15	+12	1	− 3	0·17	4	− 10	6·4	+3·1	56	1018
5. ENGLAND, S.E.	67	25	88·2	76·7	82·3	− 2·5	61	− 19	10	+ 9	2	− 2	0·15	4	− 14	6·8	+2·9	60	1018
Western.																			
6. SCOTLAND, WEST ...	60	29	85·8	79·8	82·7	− 0·6	53	− 10	0	− 1	5	+ 1	1·07	27	+ 1	3·0	−0·1	27	1015
7. ENGLAND, N.W.	66	29	86·7	78·9	82·7	− 1·2	52	− 17	0	− 1	3	− 1	0·36	9	− 12	4·7	+1·3	41	1017
8. ENGLAND, S.W.	65	28	87·6	77·9	82·6	− 2·0	56	− 20	3	+ 3	2	− 2	0·28	7	− 17	7·4	+3·6	65	1018
9. IRELAND, NORTH ...	64	31	87·3	79·8	83·4	− 0·3	62	− 3	0	0	5	+ 1	1·10	28	+ 8	2·4	−0·5	21	1013
10. IRELAND, SOUTH ...	66	31	88·1	80·4	84·1	− 0·1	70	− 4	0	− 1	5	+ 1	0·80	20	+ 1	3·7	0·0	32	1017
11. ENGLISH CHANNEL ...	64	43	88·8	81·8	85·2	− 1·0	84	− 15	0	0	2	− 2	0·20	5	− 16	7·6	+3·2	67	1019

THE SEASON (Autumn).—Aggregates, &c., for the Period of 5 Weeks, August 31st to October 4th, 1919.

0. SCOTLAND, NORTH ...	71	31	86·7	80·4	83·4	− 0·3	308	− 19	0	− 4	26	+ 3	5·89	149	+ 31	3·8	+0·4	31	1009
Eastern.																			
1. SCOTLAND, EAST ...	75	24	88·2	79.6	83·7	− 0·2	343	− 3	12	+ 6	20	+ 2	2·70	69	+ 1	4·8	+0·9	39	1011
2. ENGLAND, N.E.	85	29	89·9	80·8	85·1	0·0	422	+ 8	5	+ 4	15	− 1	1·58	41	− 13	5·0	+0·6	40	1014
3. ENGLAND, EAST ...	88	28	91·0	81·2	85·9	0·0	479	+ 11	11	+ 10	11	− 4	1·05	27	− 30	5·7	+0·8	47	1016
4. MIDLAND COUNTIES ...	90	27	90·1	80·5	85·1	− 0·2	434	+ 5	15	+ 10	14	− 1	1·82	46	− 11	4·9	+0·7	39	1016
5. ENGLAND, S.E.	85	25	91·2	82·1	86·5	0·0	512	+ 11	10	+ 9	11	− 4	1·52	39	− 27	5·7	+0·6	47	1016
Western.																			
6. SCOTLAND, WEST ...	73	29	87·9	80·7	84·2	− 0·4	359	− 23	3	+ 1	22	+ 4	4·79	122	+ 12	4·5	+0·5	36	1013
7. ENGLAND, N.W.	84	29	89·0	81·7	85·2	− 0·2	417	− 13	0	− 1	18	0	2·71	68	− 16	4·9	+0·7	40	1015
8. ENGLAND, S.W.	86	28	89·9	82·1	85·9	− 0·2	466	− 7	3	+ 2	17	− 1	2·16	54	− 34	5·2	+0·5	42	1016
9. IRELAND, NORTH ...	75	30	88·8	81·1	84·6	− 0·3	382	− 20	0	0	24	+ 3	3·83	97	+ 9	4·2	+0·5	34	1013
10. IRELAND, SOUTH ..	75	31	89·5	82·0	85·6	0·0	445	− 3	0	− 1	21	+ 2	2·93	74	+ 11	4·7	+0·4	38	1016
11. ENGLISH CHANNEL ...	83	40	91·1	84·8	87·8	+ 0·1	584	+ 4	0	0	14	− 3	2·41	60	− 17	6·2	+0·5	50	1017

THE YEAR 1919.—Aggregates, &c., for the Period of 40 Weeks, December 29th, 1918, to October 4th, 1919.

0. SCOTLAND, NORTH ...	78	11	83·8	77·6	80·6	− 0·6	1697	−172	680	+ 137	173	−11	31·89	812	− 98	3·7	+0·1	28	1011
Eastern.																			
1. SCOTLAND, EAST ...	78	5	84·8	77·0	80·7	− 0·7	1907	−177	799	+ 176	142	−14	18·96	487	− 80	4·4	+0·2	33	1012
2. ENGLAND, N.E.	85	11	85·9	78·4	82·0	− 0·3	2303	− 88	583	+ 110	141	+ 1	18·18	463	+. 7	4·3	−0·3	33	1013
3. ENGLAND, EAST ...	88	10	86·6	78·6	82·4	− 0·6	2546	−196	591	+ 96	129	− 6	18·05	462	+ 26	4·7	−0·3	36	1014
4. MIDLAND COUNTIES ...	90	9	86·6	78·3	82·3	− 0·5	2539	−126	643	+ 116	130	− 4	21·37	543	+ 57	4·4	0·0	33	1014
5. ENGLAND, S.E.	86	16	87·1	79·3	83·1	− 0·5	2774	−138	461	+ 81	127	− 4	20·76	525	+ 50	4·8	−0·4	37	1014
Western.																			
6. SCOTLAND, WEST ...	83	14	85·3	78·3	81·6	− 0·6	2092	−193	542	+ 124	155	− 8	28·88	734	−106	4·6	+0·2	35	1013
7. ENGLAND, N.W.	84	16	85·6	79·1	82·2	− 0·5	2328	−164	494	+ 111	140	− 8	22·13	562	− 72	4·5	0·0	34	1014
8. ENGLAND, S.W.	86	15	86·5	79·5	82·9	− 0·5	2598	−145	412	+ 110	141	− 6	26·56	674	0	5·1	+0·2	39	1015
9. IRELAND, NORTH ...	78	22	85·6	78·9	82·1	− 0·5	2200	−174	437	+ 97	173	− 7	24·81	625	− 74	4·2	+0·2	32	1012
10. IRELAND, SOUTH ...	80	22	86·7	79·7	83·0	− 0·4	2596	−132	362	+ 101	163	+ 4	24·46	622	−100	4·5	0·0	34	1015
11. ENGLISH CHANNEL ...	85	26	87·2	81·7	84·3	− 0·3	3028	−142	137	+ 32	140	−10	27·59	697	+149	5·6	−0·3	43	1016
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: October 10th, 1919.

Printed by HIS MAJESTY'S STATIONERY OFFICE.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 41.

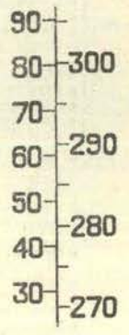
THE FORTY-FIRST WEEK OF 1919.

SUNDAY, OCTOBER 5TH, TO SATURDAY, OCTOBER 11TH, 1919.

Price 6d. Net, Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d. Net.

I.—GENERAL SUMMARY. [First published in 1878.]

The fine weather with which October opened continued during the week, and, whereas this is normally the wettest period of the year in most parts of the British Islands, the rainfall of the week was insignificant. During the earlier days of the week barometric pressure was highest over our southern districts and the neighbouring parts of the Continent, but later the anticyclone was situated off our western coasts, and shallow depressions moved from North to South over our Islands. Cloudy skies and relatively warm weather were associated with the anticyclone, and in Ireland there was a deficiency of sunshine, while temperature was in excess of the normal. In Scotland also temperature slightly exceeded the normal, but in all English Districts it was below it. The highest of the maxima occurred either on the 5th or 6th, readings of 294 a. to 295 a. being registered at several stations in Ireland S., in England N.E., and Scotland E. Later in the week, on the other hand, the maxima were very low, in many parts of Great Britain below 281 a., the actual lowest being 279 a. at Balmoral on the 11th. Over Ireland and the Channel Islands night temperatures were high, the minima being mostly about 277 a., but in all other districts the screen thermometers went down to below the freezing point, the lowest reading was 269 a. at Balmoral on the 7th, when the grass minimum went down to 266 a.; similar readings were registered at Newton Rigg on the 9th. Rainfall was light in all parts of the British Isles, but heavy dews were observed on several days, with fog locally. There was an excess of bright sunshine in all parts of Great Britain; in the Midland Counties and in England S.W. the daily mean was about two hours more than the normal. Displays of aurora borealis were witnessed at Aberdeen on the 5th and 6th; solar halos were seen at Aberdeen and Seskin on the 7th, and at Oxford on the 10th, while lunar halos were reported at Raunds and Oxford on the 7th, and again at Oxford on the 9th and 10th, and at Folkestone on the 11th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E.† Shoeburyness.		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	10	3·7	11	1·8	0	—	0	—	10	2·8	3	1·0	3	1·5	5	3·0
North	15	5·6	11	3·1	22	4·1	17	2·6	14	4·6	19	3·4	13	3·2	14	2·5
West	18	4·3	13	4·2	12	2·2	3	1·0	9	1·9	2	1·7	12	3·9	1	0·2
East	2	4·1	6	2·5	8	2·3	13	2·2	13	3·8	21	3·8	6	3·1	17	1·9
Calm	1	—	5	—	6	—	10	—	4	—	0	—	9	—	7	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.												
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.						Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with normal for the time of year ... Warmth ...	Moderate	Moderate	Moderate	Moderate	Deficient	Deficient	Unusual	Moderate	Deficient	Unusual	Very unusual	Moderate
Rainfall ...	Very light	Light	Very light	Light	Very light	Very light	Light	Light	Very light	Light	Light	Light
Sunshine ...	Abundant	Abundant	Abundant	Moderate	Very abundant	Abundant	Abundant	Very abundant	Abundant	Scanty	Moderate	Abundant

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

AUTUMN. 6 weeks from August 31st, 1919. Warmth ...	1, 3, 2	2, 3, 1	2, 3, 1	2, 2, 2	2, 3, 1	2, 1, 3	3, 1, 2	2, 2, 2	1, 2, 3	3, 2, 1	3, 2, 1	1, 3, 2
Rainfall ...	2, 3, 1	1, 3, 2	1, 3, 2	0, 3, 3	0, 4, 2	0, 3, 3	1, 3, 2	0, 2, 4	0, 2, 4	0, 4, 2	1, 2, 3	1, 1, 4
Sunshine ...	4, 1, 1	5, 1, 0	4, 1, 1	2, 4, 0	3, 2, 1	3, 2, 1	4, 1, 1	5, 1, 0	3, 1, 2	3, 1, 2	2, 4, 0	3, 2, 1

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(25588—19) Wt. 162—833/512 625 10/19 H. St. G. 17/ 36

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.				
		Highest	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft	
						Of Daily Max.	Of Daily Min.	Daily Mean.										Ground Frosts	Lowest Reading.	Mean	Deviation from Average.	Mean.	Deviation from Average
	Ft.	°F.		°F		°F.	°F.	°F.	°F.		in	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F	°F.
0. SCOTLAND, N.																							
a, Islands .. *a* Lerwick	54	59	5, 6	37	7th	49·9	42·3	46·0	− 0·7	6	0·30	8	− 15										
a Houton Bay, Orkney	520	57	6th	36	10th	50·3	42·0	46·0	—	6	0·47	12	− 10	Houton Bay ..	4·3	+ 1·8	41	0	31	•	•	•	•
a Stornoway	51	58	5th	37	7, 8	52·6	41·9	47·1	0·0	4	0·55	14	− 16	Stornoway ..	3·7	+ 0·9	35	•	•	•	•	•	•
a Castlebay, Barra I. ..	37	56	5th	44	9, 10	53·3	48·1	50·6	—	5	0·32	8	—	Castlebay ..	2·8	—	26	•	•	•	•	•	•
b, Main-land. *a* Wick	81	60	5th	33	7th	51·1	41·0	45·9	− 2·0	5	0·33	9	− 8										
a Strathpeffer	125	69	5th	30	7th	56·1	42·7	49·2	+ 2·5	2	0·09	2	− 13										
p Glencarron	500	—	—	—	—	—	—	—	—	—	—	—	—										
a Fort Augustus.. ..	88	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William	171	61	7th	35	7, 9	56·6	40·6	48·4	+ 0·5	3	0·16	4	− 36										
1. SCOTLAND, E.																							
a Nairn	82	69	5th	30	7th	53·9	41·3	47·4	+ 0·9	5	0·52	13	− 1	Nairn	4·0	—	37	•	•	•	•	•	•
p Gordon Castle	101	73	5th	35	7th	55·6	42·0	48·6	+ 1·0	4	0·45	11	− 7	Gordon Castle..	3·6	—	34	•	•	•	•	•	•
a Aberdeen	46	64	5th	37	7, 8	54·7	42·4	48·4	+ 0·7	4	0·19	5	− 12	Aberdeen ..	3·7	+ 0·5	35	0	32	•	•	50·4	−0·6
a Balmoral	930	68	5th	24	7th	52·6	38·7	45·4	+ 1·4	4	0·17	4	− 17	Balmoral ..	•	•	•	1	20	•	•	•	•
p Crieff	432	63	6th	32	7th	56·7	40·6	48·4	+ 1·1	1	0·06	2	− 21	Crathes	3·4	+ 0·3	32	3	26	49·3	−1·1	50·8	−1·2
a Dundee	244	66	6th	33	7th	57·0	41·3	48·2	+ 1·7	2	0·04	1	− 15	Dundee	3·8	—	36	1	27	49·7	•	•	•
a Leith	30	65	5th	40	10, 11	57·0	44·7	50·7	+ 1·7	2	0·16	4	− 10	Leith	•	•	•	0	35	•	•	•	•
p Edinburgh	441	65	5th	37	10th	55·3	43·4	49·2	+ 1·3	2	0·13	3	− 12	Edinburgh ..	2·9	− 0·5	27	0	31	•	•	•	•
a West Linton	769	61	8th	30	7th	53·7	39·7	46·5	+ 1·9	3	0·09	2	—	West Linton ..	3·5	—	32	3	23	•	•	•	•
p Marchmont	498	65	6th	35	10th	55·7	41·6	48·4	+ 1·7	3	0·25	6	− 16	Marchmont .	3·2	+ 0·4	29	•	•	•	•	•	•
6. *a*, SCOTLAND, W.																							
a Ford (Argyll)	149	60	8th	29	9th	55·6	45·3	50·3	—	4	0·25	6	—	Ford (Argyll) ..	•	•	•	1	24	52·0	—	52·5	—
p Glasgow Observatory	180	62	6th	38	9th	55·4	45·1	50·1	+ 2·0	2	0·08	2	− 17	Glasgow.. ..	4·0	+ 1·8	37	2	23	•	•	•	•
p Rothesay	200	60	6th	36	9th	55·1	45·0	49·9	+ 1·1	4	0·13	3	− 22	Rothesay ..	4·0	—	37	1	29	51·0	—	51·9	−0·2
a Kilmarnock	90	63	6, 8	29	9th	58·0	43·3	50·4	+ 2·9	3	0·16	4	− 16	Kilmarnock	3·8	—	35	•	•	51·1	—	51·6	—
a Colmonell	170	62	7th	33	9th	58·0	45·9	51·8	+ 3·0	4	0·40	10	− 15	Colmonell ..	•	•	•	1	29	•	•	•	•
p Cally, Gatehouse ..	120	66	8th	31	10th	58·9	42·0	50·2	+ 2·4	5	0·19	5	− 22	Dumfries ..	4·1	—	38	3	27	51·1	+0·5	52·0	−1·8
p Dumfries	160	62	8th	36	9th	55·7	43·1	49·2	+ 0·8	5	0·09	2	− 19	Eskdalemuir ..	4·2	—	39	2	26	•	•	•	•
a Eskdalemuir	794	64	8th	31	10th	54·0	39·0	46·3	—	3	0·09	2	—										
b, I. OF MAN *p* Douglas	277	60	6th	39	10th	55·1	47·3	51·1	+ 1·3	4	0·21	5	− 21	Douglas	4·1	+ 0·7	38	0	34	•	•	•	•
2. ENGLAND, N.E.																							
a Alnwick Castle ..	210	71	5th	37	10th	59·0	42·3	50·4	+ 2·2	5	0·56	14	− 8										
a Tynemouth	118	65	5th	37	10th	56·0	42·3	49·0	+ 0·1	4	0·26	7	− 11	Cockle Park ..	4·1	+ 0·8	38	0	31	48·0	−1·3	50·3	−0·9
p Durham	336	70	6th	34	10th	58·6	36·7	47·3	− 0·8	5	0·19	5	− 14	Durham ..	4·2	+ 1·2	39	5	27	•	•	•	•
a North .. *p* Rounton	249	66	5, 6	36	10th	56·3	39·3	47·6	− 0·3	5	0·15	4	− 13	Rounton ..	•	•	•	6	27	50·1	•	•	•
a West Witton	605	69	5th	36	10th	57·4	39·6	48·2	—	3	0·08	2	—	West Witton ..	•	•	•	0	31	47·7	—	49·9	—
p Scarborough	100	66	6th	40	10th	59·4	44·6	51·8	+ 1·7	4	0·26	7	− 12	Scarborough† ..	5·3	+ 1·9	49	•	•	•	•	56·9	—
p York	56	65	6th	33	8th	56·9	39·9	48·2	− 1·1	3	0·11	3	− 13	York	4·4	+ 1·5	40	—	—	51·1	−2·1	53·4	−1·0
a Spurn Head	28	59	6th	40	10, 11	53·9	43·7	48·7	− 2·3	6	0·52	13	− 2	Spurn Head ..	•	•	•	•	•	•	•	•	•
b, South .. *a* Lincoln	58	65	5th	36	8th	56·7	40·0	48·1	− 1·5	2	0·03	1	− 14	Lincoln	•	•	•	0	35	49·8	−2·7	53·3	−1·3
a Fulbeck	180	65	5th	31	8th	57·3	38·6	47·7	− 2·0	2	0·06	1	− 14	Fulbeck ..	6·5	+ 2·9	60	•	•	—	—	—	—
														Skegness ..	5·4	+ 1·5	50	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	64	6th	35	11th	55·7	41·0	48·1	− 3·1	4	0·34	9	− 8	Cromer	4·7	+ 0·9	43	•	•	•	•	•	•
a Little Massingham ..	280	63	6th	37	11th	54·1	42·0	47·9	− 1·9	5	0·42	11	− 8	Lit. Massingham	4·5	+ 1·0	41	•	•	•	•	•	•
a Yarmouth	13	63	6th	39	5, 11	56·7	45·4	50·9	− 0·3	3	0·51	13	− 5	Yarmouth ..	4·7	—	43	0	37	53·6	−0·7	55·0	−1·4
a Norwich	93	61	6th	37	8th	55·4	44·0	49·5	− 0·9	5	0·59	15	− 4	Norwich ..	5·0	—	46	1	30	50·7	•	•	•
a Geldeston	37	66	6th	36	11th	57·6	42·6	49·9	− 0·9	5	0·46	12	− 5	Geldeston ..	4·7	+ 0·8	43	•	•	•	•	•	•
p Cambridge	41	65	6th	31	11th	57·3	38·6	47·7	− 2·5	1	0·02	1	− 14	Cambridge ..	4·5	+ 0·7	41	2	29	52·1	−1·6	55·0	−1·1
a Clacton-on-Sea ..	54	63	6th	37	11th	56·7	44·0	50·2	− 1·5	1	0·02	1	− 11	Clacton	4·6	+ 0·6	42	0	34	53·2	−2·2	56·0	−0·7
a Rothamsted	424	61	6th	35	10, 11	54·1	41·0	47·4	− 2·1	2	0·01	0	− 19	Rothamsted ..	5·2	+ 1·6	48	2	26	50·4	•	•	•
p Tottenham	51	62	6th	37	10, 11	56·4	43·1	49·6	—	0	0·00	0	—	Tottenham ..	4·0	—	37	?	?	•	•	55·4	−2·1
														S'thend-on-Sea	4·6	—	42	0	33	55·9	—	—	—
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	64	8th	36	10th	55·1	40·4	47·5	− 0·6	3	0·05	1	− 20	Harrogate ..	6·1	+ 3·0	56	1	30	49·5	−1·7	51·2	−1·0
p Sheffield	429	65	5, 6	36	10th	56·6	41·0	48·6	—	2	0·06	1	—	Sheffield.. ..	3·8	+ 0·9	35	3	29	49·1	−2·8	52·4	−0·9
p Buxton	987	63	5th	30	10th	53·3	36·4	44·6	—	1	0·02	1	− 30	Buxton	4·8	—	44	2	27	47·0	−3·4	51·7	−0·9
a Bawtry	65	63	6th	29	8th	56·0	36·7	46·1	− 2·8	3	0·05	1	− 15	Worksop	5·1	+ 2·2	47	4	25	49·3	—	51·8	—
a Nottingham	82	67	5th	31	8th	57·0	36·1	46·2	− 3·2	1	0·01	0·3	− 16	Nottingham ..	5·5	+ 2·6	50	3	28	47·2	−4·8	52·3	−2·5
b, East .. *p* Birmingham, Edgbsn.	535	65	5th	34	8th	56·0	40·3	47·9	− 1·6	1	0·01	0·3	− 18	Birmingham ..	5·5	+ 3·1	50	5	22	48·7	−2·5	51·4	−1·0
a Raunds	203	67	6th	27	8th	57·4	35·7	46·2	− 3·5	0	0·00	0·1	− 16	Raunds	5·2	—	48	4	20	51·0	—	54·2	—
p Oxford	208	63	6th	34	10th	57·3	39·0	47·9	− 2·4	1	0·01	0	− 18	Oxford	5·8	+ 2·3	53	3	27	•	•	•	•
a Cheadle (N. Staffs.) ..	646	64	5, 6	32	10th	55·4	38·3	46·6	− 1·6	0	0·00	0	− 21	Cheadle	•	•	•	1	28	•	•	•	•
c, West .. *p* Tenbury	313	66	6th	30	10th	58·7	35·1	46·6	− 2·5	2	0·09	2	− 15	Tenbury	•	•	•	3	26	50·2	—	—	—
p Ross-on-Wye	201	64	6th	32	8, 11	57·7	36·6	46·8	− 3·0	1	0·05	1	− 18	Ross-on-Wye ..	5·7	—	52	2	27	—	—	—	—
a Clifton	226	61	6th	37	10th	54·9	42·0	48·3	− 2·9	1	0·08	2	− 26	Clifton	5·8	—	53	0	34	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	64	6th	28	10th	57·4	35·9	46·3	− 2·4	5	0·05	1	− 18	Worthing	5·8	+ 1·6	53	1	30	53·3	−1·8	56·6	−0·6
p Salisbury (Wilton) ..	180	68	6th	29	10th	59·0	37·9	48·1	− 1·8	0	0·00	0	− 22	Marlborough ..	5·7	+ 2·5	52	4	22	50·8	—	54·1	—
a Wisley, Surrey ..	150	63	6th	32	11th	55·9	40·0	47·7	− 2·3	1	0·01	0·3	− 17	Salisbury	•	•	•	1	25	51·7	•	•	•
a Tunbridge Wells ..	354	64	6th	30	11th	56·9	42·9	49·7	− 1·1	2	0·02	1	− 20	Wisley	4·3	+ 0·8	39	3	21	50·9	−3·0	54·1	−1·6
a Margate	51	60	6th	43	10th	55·1	49·1	52·0	− 0·6	0	0·00	0	− 16	Tunbridge Wells	3·8	0·0	35	2	24	53·8	+1·7	55·8	—
														Margate	4·2	+ 0·5	38	0	41	55·7	+1·5	58·2	+2·1
a Dungeness	21	64	6th	35	10, 11	57·6	44·6	50·9	− 1·6	1	0·01	0·2	− 19	Folkestone ..	5·4	—	49	•	•	•	•	54·1	—
p St. Leonards	178	—	—	—	—	—	—	—	—	—	—	—	—	St. Leonards ..	5·7	+ 1·6	52	—	—	—	—	—	—
p Southampton	64	67	6th	32	10th	57·9	43·1	50·3	− 2·0	0	0·00	0	− 22	Southampton ..	5·8	+ 2·0	53	2	27	•	•	•	•
a Ventnor	59	66	6th	36	10th	58·1	46·7	52·2	− 1·9	0	0·00	0	− 22	Ventnor	5·8	+ 1·8	53	•	•	•	•	•	•
LONDON. *a* Richmond (Kew Obs.)	18	62	6th	34	5th	55·9	40·7	48·1	− 2·6	1	0·01	0·2	− 15	Richmond ..	3·7	+ 0·5	34	2	21	50·4	−3·1	54·3	−1·1
a Westminster	27	63	6th	33	11th	57·1	43·4	50·1	− 1·9	0	0·00	0	− 13	Westminster ..	3·3	+ 0·8	30	2	27	•	•	•	•
ag Greenwich	149	64	6th	33	11th	56·9	42·7	49·6	− 2·0	0	0·00	0	− 13	Greenwich ..	3·6	+ 0·1	33	2	20	•	•	•	•
a Hampstead	450	61	6th	34	11th	54·6	43·1	48·7	—	0	0·00	0	—	Hampstead ..	4·1	—	38	2	24	•	•	•	•
ag Camden Square ..	110	64	6th	34	11th	58·6	43·1	50·6	− 0·9	0	0·01	0	− 15	Camden Square	3·6	+ 1·1	33	1	29	•	•	•	•
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	62	8th	33	10th	54·4	42·0	48·0	− 0·4	3	0·15	4	− 20	Aspatria.. ..	4·0	+ 0·6	37	0	31	50·7	+0·6	51·7	−0·8
p Newton Rigg	559	67	5th	26	9th	58·6	38·0	48·0	+ 0·5	2	0·11	3	− 19	Newton Rigg ..	4·0	+ 1·1	37	4	20	51·6	−0·1	52·1	−0·4
p Stonyhurst	375	63	5th	36	10th	54·3	41·1	47·5	− 1·1	2	0·07	2	− 24	Stonyhurst ..	4·2	+ 1·4	39	3	23	•	•	•	•
p Blackpool	66	58	5, 7, 8	36	10th	54·7	41·7	48·0	− 2·0	3	0·27	7	− 14	Blackpool ..	5·5	+ 2·1	50	3	22	51·8	—	53·4	—
a Southport	37	58	5, 7	36	10th	54·0	41·4	47·5	− 2·5	3	0·22	6	− 14	Southport ..	5·6	+ 2·4	51	2	24	50·1	−1·8	53·4	−1·4
														Hoylake ..	5·2	+ 2·1	48	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	59	5th	39	10th	54·6	43·3	48·8	− 1·5	2	0·24	6	− 13	Liverpool ..	3·8	—	35	0	34	•	•	•	•
a Hawarden Bridge ..	22	63	5th	37	8th	56·0	40·7	48·1	− 2·7	2	0·13	3	− 14	Manchester(City)	2·1	− 0·2	19	1	28	48.3	−4·4	54·6	−1·2
a Manchester (Whit. Pk.)	125	65	5th	33	10th	56·3	40·6	48·2	− 2·4	2	0·07	2	− 17	Whitworth Park	2·8	+ 0·6	26	•	•	•	•	•	•
b. NORTH WALES.																							
p Llandudno	16	63	5th	35	11th	58·3	45·0	51·5	− 0·3	2	0·20	5	− 15	Llandudno ..	4·7	+ 1·2	43	•	•	•	•	•	•
a Holyhead	15	59	5, 8	46	10, 11	56·6	49·7	53·1	+ 1·2	2	0·28	7	− 16	Holyhead ..	2·8	—	26	0	42	•	•	•	•
a Beddgelert	309	—	—	—	—	—	—	—	—	—	—	—	—										
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 fee

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average.
8. *a*, SOUTH WALES.	Ft.	°F.		°F		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
a Aberystwyth	59	61	7th	34	10th	55·4	43·0	49·0	—	2	0·24	6	—	Aberystwyth ..	5·4	+ 1·8	50	*	*	*	*	*	*
a Rhayader	767	66	5th	27	10th	56·3	36·7	46·2	—	3	0·07	2	—	Rhayader ..	6·1	—	56	4	18	*	*	*	*
a St. Ann's Head ..	149	60	5–7	43	10th	57·3	47·3	52·2	− 0·3	2	0·24	6	− 18	St. Ann's Head ..	4·9	+ 1·5	45	*	*	*	*	*	*
p Cardiff	202	63	6th	36	10th	55·9	41·0	48·2	− 2·2	2	0·06	2	− 26	Cardiff	5·7	—	52	1	30	51·2	−2·5	55·0	−0·7
b, ENGLAND, S.W.																							
a Bath	66	66	5, 6	34	8, 10	58·6	39·4	48·7	− 1·8	2	0·07	2	− 17	Bath	*	*	*	*	*	52·3	−4·2	55·9	−2·0
a Shaftesbury	722	63	5th	34	10th	55·3	42·3	48·6	− 1·2	1	0·04	1	− 22	Shaftesbury ..	*	*	*	*	*	53·0	—	55·7	—
a Arlington	613	62	6th	34	10th	55·3	42·3	48·6	− 1·4	2	0·18	5	− 32										
a Newquay	190	62	6, 7	38	8th	57·2	43·2	50·0	− 3·2	2	0·09	2	− 21	Newquay ..	4·7	+ 0·5	43	*	*	53·8	—	56·9	—
a Cullompton	202	62	5, 6	29	10th	58·1	37·9	47·7	− 2·7	1	0·03	1	− 23	Cullompton ..	4·8	+ 1·3	44	2	27	51·4	*	*	*
a Portland Bill	19	64	6th	39	10th	57·7	46·3	51·8	− 1·7	1	0·08	2	− 20	Weymouth ..	5·9	—	54	*	*	*	*	*	*
p Plymouth	116	63	6th	39	10th	59·3	45·7	52·3	− 0·1	1	0·08	2	− 21	Plymouth ..	5·9	+ 1·8	54	0	33	52·5	−2·7	56·1	—
a Falmouth	167	64	6th	40	10, 11	58·6	43·7	50·9	− 1·8	2	0·10	3	− 26	Falmouth ..	4·8	+ 0·5	44	0	31	55·6	—	58·6	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	60	5th	42	9th	57·3	48·7	52·9	+ 3·1	5	0·39	10	− 7	Malin Head ..	1·7	—	16	*	*	*	*	*	*
{ *a* Blacksod Point ..	37	60	5th	45	10th	56·9	48·7	52·7	+ 2·0	6	0·29	7	− 22	Markree Castle	2·1	− 0·7	19	0	36	55·3	+1·8	54·8	+0·1
{ *p* Markree Castle ..	122	67	5th	42	10th	59·7	49·4	54·4	+ 5·3	5	0·41	10	− 14										
b, East .. { *p* Armagh	196	63	5th	40	9th	57·1	46·3	51·5	+ 3·2	5	0·47	12	− 4	Armagh	1·3	− 1·5	12	0	32	54·0	+1·0	53·6	−0·8
{ *a* Donaghadee	39	62	6th	36	10th	56·4	47·3	51·7	+ 2·0	3	0·12	3	− 14										
10. IRELAND, S.																							
p Dublin, City	47	66	6th	43	10th	58·7	49·6	54·0	+ 3·4	5	0·31	8	− 8	Trinity Coll. ..	*	*	*	—	—	—	—	—	—
a Birr Castle	175	66	6th	39	9, 10	59·6	48·9	54·1	+ 5·7	2	0·20	5	− 12	Phœnix Park ..	1·9	− 1·6	17	1	26	*	*	*	*
a Kilkenny	195	69	6th	41	10th	59·6	49·7	54·5	+ 5·3	3	0·13	3	− 16	Dublin City ..	*	*	*	0	40	*	*	*	*
a Waterford	137	65	6th	40	9, 10	58·0	47·9	52·8	+ 2·0	2	0·14	4	− 19	Birr Castle ..	2·1	− 1·2	19	0	32	*	*	*	*
p Seskin, Carrick-on-Suir	535	68	6th	39	10th	59·0	48·0	53·3	—	4	0·14	4	—	Seskin	2·2	—	20	0	36	*	*	*	*
a Cahir	199	70	6th	46	10th	59·6	50·7	55·0	+ 5·9	2	0·11	3	—										
a Foynes	50	70	6th	43	10th	60·7	51·6	56·0	+ 5·4	2	0·04	1	− 21										
a Cahirciveen (Val. Obs.)	30	65	7th	42	10th	59·6	49·7	54·5	+ 2·3	1	0·08	2	− 31	Cahirciveen ..	4·1	+ 0·7	38	0	34	*	*	*	*
a Killarney	174	72	6th	37	10th	63·0	49·4	56·0	+ 5·1	1	0·17	4	− 28	Ballinacurra ..	3·7	+ 0·4	34	*	*	*	*	*	*
a Roche's Point	32	65	8th	41	10th	59·7	49·4	54·4	+ 2·4	5	0·19	5	− 19										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	62	6, 7	46	10, 11	58·7	48·6	53·5	− 0·9	0	0·00	0	− 21	Scilly	5·1	+ 0·9	46	*	*	*	*	*	*
a Jersey, St. Aubins ..	25	65	6th	43	11th	58·9	50·4	54·5	− 0·1	1	0·16	4	− 21	St. Heliers ..	4·7	+ 0·2	43	*	*	*	*	*	*
a Guernsey (Villa Carey)	180	68	6th	46	10th	60·7	52·1	56·3	+ 1·6	1	0·44	11	− 15	Guernsey† ..	5·3	+ 0·7	48	0	37	56·3	−1·1	58·4	−0·7

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, October 11th, 1919.

DISTRICT AND STATION	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.	Highest Gust. Speed.	Date
0. SCOTLAND, N.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day. hr.	m/s.	d. h. m.
Deerness (Cup Anr.)** ..	188	16	5	—	—	6 to 8	8	77	65	18	0	270	13	8 2	—	— — —
1. SCOTLAND, E.																
Dyce	305	75	15*	—	—	—	—	2	95	64	7	349	6	8 11	15	8 13 0
Aberdeen	153	105	52	—	—	—	—	26	111	31	0	315	9	9 14	16	9 11 25
Edinburgh	485	39	31	—	—	—	—	27	111	30	0	247	8	8 5	12	6 7 50
6. SCOTLAND, W.																
Eskdalemuir	825	50	22	—	—	—	—	16	110	42	0	50	9	6 16	14	{ 6 16 10
Paisley	188	81	15	—	—	—	—	—	96	72	0	225	5	6 7	12	{ 9 9 55 6 4 55
2. ENGLAND, N.E.																
Alnwick Castle	340	70	17	—	—	—	—	—	—	—	—	—	—	— —	—	— — —
South Shields	72	61	12	—	—	—	—	40	92	36	0	23	9	9 12	15	9 10 35
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	— —	—	— — —
3. ENGLAND, E.																
Gorleston	52	42	‡	—	—	9	6	83	79	0	0	—	12	9 10	15	9 13 25
Shoeburyness	103	90	‡	—	—	—	—	34	103	31	0	45	10	7 10	15	7 9 35
4. MIDLAND COUNTIES																
Benson	270	84	‡	—	—	—	—	9	74	85	0	360	8	9 9	14	9 8 45
5. ENGLAND, S.E.																
Brighton	261	53	6	—	—	—	—	13	141	14	0	—	7	7 11	14	7 10 55
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument out of adjustment.			—	—	—	—	—	—	— —	—	— — —
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	57	99	7	5	23	9	9 9	13	9 8 25
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	17	69	82	0	23	6	9 12	12	9 11 55
7. ENGLAND, N.W.																
Carnforth	246	56	23	—	—	—	—	—	20	148	0	326	4	9 12	7	9 12 25
Fleetwood (Cup Anr.) ..	109	44	—	—	—	—	—	21	112	35	0	11	9	10 1	—	— — —
Southport	80	62	48	—	—	—	—	35	97	36	0	67	9	6 22	13	6 21 55
Holyhead	60	40	‡	—	—	7, 8, 10	7	71	62	28	0	101	12	7 1	15	8 19 0
8. ENGLAND, S.W.																
Pendennis Castle§ ..	256	65	24	—	—	7, 8	11	34	92	15	16	67	14	7 11	20	7 10 10
Plymouth	185	88	‡	—	—	—	—	11	96	61	0	—	9	7 9	17	7 9 10
Lyme Regis	556	61	‡	—	—	—	—	8	67	84	9	—	7	7 13	11	7 12 40
10. IRELAND, S.																
Kingstown (Cup Anr.) ..	49	27	—	—	—	—	—	49	58	61	0	45	11	9 5	—	— — —
Quilty	100	40	‡	—	—	—	—	28	98	42	0	—	8	8 22	13	9 0 10
Cahirciveen (Val. Obs.)	98	41	‡	—	—	—	—	21	97	50	0	75	9	9 8	14	8 18 40
Weaver Pt.	160	30	‡	—	—	—	—	58	89	21	0	—	9	9 1	15	7 11 45
11. ENGLISH CHANNEL																
Scilly	150	32	‡	—	—	—	—	33	115	20	0	90	10	7 11	16	7 11 50

† More exactly the ranges adopted for this classification are > 17·2, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.

* Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FORTY-FIRST WEEK of 1919—October 5th to October 11th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr	hr.	%	mb.
0. SCOTLAND, NORTH ...	69	30	84·8	78·4	81·5	+ 0·2	38	− 4	1	− 4	4	− 1	0·29	7	− 22	4·0	+1·4	37	1027
Eastern.																			
1. SCOTLAND, EAST ...	73	24	85·8	78·2	81·9	+ 0·5	45	− 2	2	− 4	3	− 1	0·24	6	− 14	3·5	+0·5	33	1027
2. ENGLAND, N.E.	71	31	86·9	77·9	82·3	− 0·4	53	− 2	3	+ 1	4	0	0·23	6	− 12	5·0	+1·7	46	1027
3. ENGLAND, EAST ...	66	31	86·3	78·8	82·4	− 1·0	49	− 16	0	− 3	3	− 1	0·26	7	− 9	4·6	+0·9	42	1025
4. MIDLAND COUNTIES ...	67	27	86·7	76·3	81·3	− 1·4	52	− 6	11	+ 6	1	− 3	0·04	1	− 18	5·4	+2·3	50	1027
5. ENGLAND, S.E.	68	28	86·9	78·7	82·7	− 1·3	53	− 19	0	− 3	1	− 3	0·01	0	− 19	5·0	+1·3	46	1026
Western.																			
6. SCOTLAND, WEST ...	66	29	86·6	80·0	83·2	+ 0·9	59	+ 7	0	− 3	4	0	0·19	5	− 22	4·1	+1·2	37	1028
7. ENGLAND, N.W.	67	26	86·3	78·8	82·4	− 0·7	49	− 10	0	− 1	2	− 2	0·17	4	− 18	4·6	+1·6	42	1028
8. ENGLAND, S.W.	66	27	87·0	78·7	82·7	− 1·1	53	− 15	0	− 1	2	− 2	0·10	3	− 24	5·2	+1·8	48	1027
9. IRELAND, NORTH ...	67	36	87·3	82·0	84·6	+ 2·1	76	+ 24	0	− 2	4	− 1	0·31	8	− 14	1·7	−1·1	16	1028
10. IRELAND, SOUTH ...	72	37	88·4	82·8	85·6	+ 2·3	88	+ 27	0	− 1	3	− 1	0·15	4	− 19	3·0	−0·4	27	1029
11. ENGLISH CHANNEL ...	68	43	88·2	83·2	85·7	+ 0·1	90	+ 1	0	0	1	− 4	0·20	5	− 18	5·0	+0·7	46	1025

THE SEASON (Autumn).—Aggregates, &c., for the Period of 6 Weeks, August 31st to October 11th, 1919.

0. SCOTLAND, NORTH ...	71	30	86·5	80·1	83·2	− 0·1	346	− 23	1	− 8	30	+ 2	6·18	156	+ 9	3·8	+0·6	31	1012
Eastern.																			
1. SCOTLAND, EAST ...	75	24	87·8	79.4	83·4	− 0·1	388	− 5	14	+ 2	23	+ 1	2·94	75	− 13	4·6	+0·9	38	1013
2. ENGLAND, N.E.	85	29	89·4	80·3	84·7	0·0	475	+ 6	8	+ 5	19	− 1	1·81	47	− 25	5·0	+0·8	41	1016
3. ENGLAND, EAST ...	88	28	90·2	80·8	85·3	− 0·2	528	− 5	11	+ 7	14	− 5	1·31	34	− 39	5·6	+0·9	46	1017
4. MIDLAND COUNTIES ...	90	27	89·6	79·8	84·5	− 0·4	486	− 1	26	+ 16	15	− 4	1·86	47	− 29	5·0	+1·0	41	1018
5. ENGLAND, S.E.	85	25	90·5	81·5	85·8	− 0·3	565	− 8	10	+ 6	12	− 7	1·53	39	− 46	5·6	+0·7	47	1018
Western.																			
6. SCOTLAND, WEST ...	73	29	87·7	80·6	84·0	− 0·2	418	− 16	3	− 2	26	+ 4	4·98	127	− 10	4·4	+0·6	36	1016
7. ENGLAND, N.W.	84	26	88·5	81·2	84·7	− 0·3	466	− 23	0	− 2	20	− 2	2·88	72	− 34	4·8	+0·8	40	1017
8. ENGLAND, S.W.	86	27	89·5	81·6	85·3	− 0·4	519	− 22	3	+ 1	19	− 3	2·26	57	− 58	5·2	+0·7	43	1018
9. IRELAND, NORTH ...	75	30	88·6	81·2	84·6	+ 0·1	458	+ 4	0	− 2	28	+ 2	4·14	105	− 5	3·8	+0·3	31	1016
10. IRELAND, SOUTH ...	75	31	89·3	82·1	85·6	+ 0·4	533	+ 24	0	− 2	24	+ 1	3·08	78	− 30	4·4	+0·3	37	1018
11. ENGLISH CHANNEL ...	83	40	90·6	84·5	87·5	+ 0·1	674	+ 5	0	0	15	− 7	2·61	65	− 35	6·0	+0·5	50	1019

THE YEAR 1919.—Aggregates, &c., for the Period of 41 Weeks, December 29th, 1918, to October 11th, 1919.

0. SCOTLAND, NORTH ...	78	11	83·8	77·6	80·6	− 0·6	1735	−176	681	+ 133	177	−12	32·18	819	−120	3·8	+0·3	28	1012
Eastern.																			
1. SCOTLAND, EAST ...	78	5	84·8	77·0	80·7	− 0·7	1952	−179	801	+ 172	145	−15	19·20	493	− 96	4·4	+0·2	33	1012
2. ENGLAND, N.E.	85	11	85·9	78·4	82·0	− 0·3	2356	− 90	586	+ 111	145	+ 1	18·41	469	− 5	4·3	−0·3	33	1013
3. ENGLAND, EAST ...	88	10	86·6	78·6	82·4	− 0·6	2595	−212	591	+ 93	132	− 7	18·31	469	+ 17	4·7	−0·3	36	1014
4. MIDLAND COUNTIES ...	90	9	86·6	78·3	82·3	− 0·5	2591	−132	654	+ 122	131	− 7	21·41	544	+ 39	4·4	0·0	34	1014
5. ENGLAND, S.E.	86	16	87·1	79·3	83·1	− 0·5	2827	−157	461	+ 78	128	− 7	20·77	525	+ 31	4·9	−0·3	37	1015
Western.																			
6. SCOTLAND WEST ...	83	14	85·3	78·3	81·7	− 0·5	2151	−186	542	+ 121	159	− 8	29·07	739	−128	4·6	+0·3	35	1013
7. ENGLAND, N.W.	84	16	85·7	79·1	82·2	− 0·5	2377	−174	494	+ 110	142	−10	22·30	566	− 90	4·5	0·0	34	1014
8. ENGLAND, S.W.	86	15	86·6	79·5	82·9	− 0·5	2651	−160	412	+ 109	143	− 8	26·66	677	− 24	5·1	+0·2	39	1015
9. IRELAND, NORTH ...	78	22	85·6	79·0	82·1	− 0·5	2276	−150	437	+ 95	177	− 8	25·12	633	− 88	4·1	+0·1	32	1013
10. IRELAND, SOUTH ...	80	22	86·7	79·8	83·1	− 0·3	2684	−105	362	+ 100	166	+ 3	24·61	626	−119	4·5	0·0	34	1015
11. ENGLISH CHANNEL ...	85	26	87·2	81·7	84·3	− 0·3	3118	−141	137	+ 32	141	−14	27·79	702	+131	5·6	−0·3	43	1016
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: October 17th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 42.

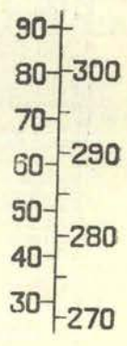
THE FORTY-SECOND WEEK OF 1919.

SUNDAY, OCTOBER 12TH, TO SATURDAY, OCTOBER 18TH, 1919.

Price 6d. Net, Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d. Net.

I.—GENERAL SUMMARY. [First published in 1878.]

Over our northern and eastern districts the weather of the first few days of the week was very inclement, there were frequent showers of rain, hail and snow, while between the 13th and 15th thunderstorms occurred in various districts; a "line squall" passed over south-eastern England in the early afternoon of the 13th. During the second half of the week an anticyclone moved from west to east over the country, and there was a general improvement, some fine warm days being experienced. The mean temperature of the week was below the normal in all districts; the deficit was less than 2a. in Ireland S., but in England S.E. it was more than 4a. The highest of the maxima occurred either on the 17th or 18th, when readings of 288a. or 289a. were registered in most parts of the United Kingdom. The lowest minima occurred on various dates, but mostly on the 15th, when the thermometer in the screen went down to 270a. or 271a. over the inland regions, the actual lowest (269a.) being at Cambridge and Marlborough. At Newton Rigg (under Skiddaw) the minimum on the grass on the 15th was as low as 265a. and that at Greenwich on the 12th was 266a. In Scotland N. rainfall was slightly more than the normal, but in all other districts there was a deficit, in some western and southern districts the deficiency was nearly 20mm.; at Hawarden Bridge (Chester) on the 14th the rainfall (rain, snow and hail) was as much as 27mm. Bright sunshine was abundant in all districts except Scotland N. and Scotland E., in England S.E. the daily amount was 5·7 hr., and in the English Channel 6·8 hr., in each case about 2½ hr. per day more than the normal. Aurora was witnessed at Aberdeen on the 15th and 18th, and at Tenbury and Oxford on the 17th. Solar halos were seen at Oxford on the 13th, 14th and 17th, and at Tenbury and at various places in the south-east of England on the 14th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E.† Shoeburyness.		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	2	5·4	7	2·5	6	2·0	5	0·9	7	2·4	6	4·9	12	1·8	7	3·9
North	22	5·9	15	3·4	10	2·8	11	1·6	21	8·0	21	5·8	9	3·5	18	5·6
West	21	5·1	27	5·0	26	4·0	18	2·7	27	5·0	16	4·6	23	7·3	15	2·7
East	1	1·4	0	—	0	—	0	—	1	2·9	8	2·5	1	0·6	9	1·3
Calm	1	—	0	—	2	—	10	—	0	—	0	—	3	—	2	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Very deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient
	Rainfall ...	Moderate	Moderate	Light	Light	Light	Light	Light	Moderate	Light	Light	Light	Moderate
	Sunshine ...	Moderate	Moderate	Abundant	Abundant	Abundant	Very abundant	Abundant	Abundant	Very abundant	Abundant	Abundant	Very abundant

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

AUTUMN. 7 weeks from August 31st, 1919.	Warmth ...	1, 3, 3	2, 3, 2	2, 3, 2	2, 2, 3	2, 3, 2	2, 1, 4	3, 1, 3	2, 2, 3	1, 2, 4	3, 1, 3	3, 2, 2	1, 3, 3
	Rainfall ...	2, 4, 1	1, 4, 2	1, 3, 3	0, 3, 4	0, 4, 3	0, 3, 4	1, 3, 3	0, 3, 4	0, 2, 5	0, 4, 3	1, 2, 4	1, 2, 4
	Sunshine ...	4, 2, 1	5, 2, 0	5, 1, 1	3, 4, 0	4, 2, 1	4, 2, 1	5, 1, 1	6, 1, 0	4, 1, 2	4, 1, 2	3, 4, 0	4, 2, 1

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(25686—19) Wt. 162—833/512 625 10/19 H. St. G. 17/ 36

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week		Deviation from Normal.					Grass Min.		Earth 1 ft.		Earth 4 ft	
																		Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																							
a, Islands .. a Lerwick ..	54	52	18th	35	15, 16	47·0	36·1	41·4	- 4·7	7	1·02	26	+ 6										
a Houton Bay, Orkney	520	55	18th	34	14–16	45·4	36·9	41·0	—	—	—	—	—	Houton Bay ..	—	—	—	*	*	*	*	*	*
a Stornoway	51	55	18th	30	15th	48·4	36·9	42·5	- 4·0	6	1·14	29	+ 3	Stornoway ..	2·5	- 0·2	25	*	*	*	*	*	*
a Castlebay, Barra I. ..	37	54	17, 18	37	13th	49·9	41·4	45·5	—	6	0·91	23	—	Castlebay ..	3·2	—	32	*	*	*	*	*	*
b, Mainland. a Wick	81	56	18th	33	14, 15	48·1	36·6	42·2	- 4·2	5	0·55	14	- 1										
a Strathpeffer	125	56	18th	33	15th	47·4	37·7	42·4	- 3·6	4	0·59	15	+ 2										
p Glencarron	500	50	17, 18	32	14th	44·9	37·3	41·0	- 4·5	7	1·88	48	+ 6										
a Fort Augustus.. ..	68	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William	171	56	17th	33	14th	48·9	38·6	43·6	- 3·7	7	1·27	32	- 3										
1. SCOTLAND, E.																							
a Nairn	82	55	18th	34	14, 15	47·6	37·0	42·1	- 3·6	5	0·48	12	- 1	Nairn	0·9	—	9	*	*	*	*	*	*
p Gordon Castle ..	101	58	18th	34	14, 15	48·0	37·7	42·7	- 4·1	5	1·23	31	+ 14	Gordon Castle..	1·8	—	18	*	*	*	*	*	*
a Aberdeen	46	55	18th	35	13–16	48·6	37·3	42·8	- 4·2	5	1·11	28	+ 12	Aberdeen ..	3·1	+ 0·3	31	1	30	*	*	49·3	-1·0
a Balmoral	930	55	17th	32	13th	44·0	35·3	39·5	- 3·7	5	0·87	22	+ 2	Balmoral ..	*	*	*	2	29	*	*	*	*
p Crieff	432	59	17th	30	15th	50·0	35·9	42·7	- 3·8	3	0·07	2	- 20	Crathes	2·2	- 0·6	22	3	27	44·8	—4·3	49·6	-1·5
a Dundee	244	60	17th	30	14th	50·1	34·4	42·0	- 4·4	2	0·06	2	- 13	Dundee	3·5	—	35	4	25	45·9	*	*	*
a Leith	30	59	17th	35	15th	50·7	38·7	44·5	- 3·7	2	0·12	3	- 10	Leith	*	*	*	1	30	*	*	*	*
p Edinburgh	441	56	17th	34	13, 15, 16	47·9	37·7	42·7	- 4·4	2	0·18	5	- 9	Edinburgh ..	2·8	- 0·2	28	4	27	*	*	*	*
a West Linton	769	51	17th	28	15th	47·3	34·4	40·7	- 3·1	4	0·63	16	—	West Linton ..	3·0	—	29	4	22	*	*	*	*
p Marchmont	498	58	17th	31	14, 16	48·4	35·6	41·8	- 4·1	2	0·80	20	- 1	Marchmont .	3·2	+ 0·7	31	*	*	*	*	*	*
6. a, SCOTLAND, W.																							
a Ford (Argyll)	149	55	17th	31	15th	50·0	37·9	43·8	—	4	0·61	16	—	Ford (Argyll) ..	*	*	*	4	23	48·4	—	52·0	—
p Glasgow Observatory	180	56	17th	34	14–16	49·9	38·5	44·1	- 3·2	3	0·03	1	- 17	Glasgow.. ..	3·5	+ 1·6	35	4	20	*	*	*	*
p Rothesay	200	56	17th	35	14–16	49·4	38·4	43·7	- 4·3	3	0·15	4	- 20	Rothesay ..	3·9	—	38	4	27	46·1	—	50·9	-0·5
a Kilmarnock	90	59	17th	28	14–16	52·4	35·7	43·8	- 2·9	1	0·04	1	- 18	Kilmarnock ..	4·0	—	39	*	*	46·2	—	51·0	—
a Colmonell	170	58	17th	34	15th	53·3	42·1	47·5	- 0·5	2	0·08	2	- 22	Colmonell ..	*	*	*	1	30	*	*	*	*
p Cally, Gatehouse ..	120	59	17th	29	15, 16	52·7	35·4	43·8	- 3·2	0	0·00	0	- 26	Dumfries ..	4·2	—	41	5	22	46·0	-3·2	50·9	-1·9
p Dumfries	160	57	17th	30	15th	50·1	36·0	42·8	- 4·8	1	0·01	0·2	- 20	Eskdalemuir ..	3·5	—	34	4	21	*	*	*	*
a Eskdalemuir	794	53	17th	29	15th	47·1	33·3	40·0	—	3	0·39	10	—										
b, I.OF MAN p Douglas	277	55	17th	35	15th	50·6	39·9	45·1	- 3·9	4	1·16	30	+ 5	Douglas	4·0	+ 1·0	39	1	29	*	*	*	*
2. ENGLAND, N.E																							
a Alnwick Castle ..	210	60	17th	32	15th	50·8	37·0	43·7	- 3·5	3	0·39	10	- 13										
a Tynemouth	118	58	17th	32	15th	50·1	36·7	43·2	- 4·7	3	0·31	8	- 10	Cockle Park ..	4·1	+ 1·2	40	2	26	41·8	-5·9	48·6	-1·8
p Durham	336	59	17th	29	15th	51·3	34·3	42·6	- 4·4	3	0·36	9	- 10	Durham ..	3·9	+ 1·3	38	3	19	*	*	*	*
a North .. p Rounton	249	58	17th	28	15th	49·0	32·0	40·3	- 6·5	4	0·47	12	- 5	Rounton ..	*	*	*	6	18	46·0	*	*	*
a West Witton	605	57	17th	32	15th	50·1	35·9	42·8	—	2	0·13	3	—	West Witton ..	*	*	*	4	27	43·7	—	48·9	—
p Scarborough	100	60	18th	33	12, 13	52·7	36·4	44·3	- 4·7	5	0·57	14	- 5	Scarborought ..	3·3	+ 0·3	32	*	*	*	*	55·9	—
p York	56	58	17th	30	15th	51·7	35·7	43·5	- 4·7	3	0·46	12	- 4	York	3·8	+ 1·3	37	—	—	47·7	-4·2	52·3	-1·3
b, South .. a Spurn Head	26	58	18th	34	16th	46·6	38·0	42·2	- 7·7	5	0·47	12	- 3	Spurn Head ..	*	*	*	*	*	*	*	*	*
a Lincoln	58	58	17th	29	15th	50·7	34·3	42·3	- 5·9	2	0·10	3	- 12	Lincoln	*	*	*	3	28	45·1	-5·6	51·8	-2·0
a Fulbeck	180	58	17, 18	27	15th	51·1	32·9	41·7	- 6·7	2	0·08	2	- 13	Fulbeck	4·7	+ 1·5	45	*	*	—	—	—	—
														Skegness ..	5·1	+ 1·7	49	*	*	*	*	*	*
3. ENGLAND, E.																							
p Cromer	196	58	18th	29	13th	50·0	32·7	41·1	- 8·8	5	0·25	6	- 9	Cromer	4·0	+ 0·7	38	*	*	*	*	*	*
a Little Massingham ..	280	55	17, 18	28	15th	48·6	32·1	40·1	- 8·4	5	0·17	4	- 13	Lit. Massingham	3·2	+ 0·2	31	*	*	*	*	*	*
a Yarmouth	13	57	18th	31	15, 16	50·9	33·6	42·0	- 7·9	2	0·51	13	- 4	Yarmouth ..	4·2	—	40	1	29	47·6	-5·1	53·1	-2·4
a Norwich	93	55	17, 18	31	15th	49·7	34·4	41·8	- 7·3	5	0·53	15	- 5	Norwich ..	4·4	—	42	6	25	44·9	*	*	*
a Geldeston	37	58	18th	27	15th	52·7	32·1	42·1	- 7·4	4	0·75	19	+ 3	Geldeston ..	5·0	+ 1·7	48	*	*	*	*	*	*
p Cambridge	41	58	17th	25	15th	51·6	32 0	41·5	- 7·4	1	0·04	1	- 13	Cambridge ..	5·3	+ 2·1	51	6	18	47·1	-5·2	53·7	-1·6
a Clacton-on-Sea ..	54	57	17th	31	15, 16	51·7	34·4	42·8	- 7·6	2	0·04	1	- 10	Clacton	4·8	+ 1·3	46	2	27	47·4	-6·9	54·2	-1·8
a Rothamsted	424	54	17th	31	17th	49·1	33·6	41·1	- 7·1	4	0·28	7	- 11	Rothamsted ..	5·1	+ 2·0	49	7	24	45·5	*	*	*
p Tottenham	51	56	17th	34	12, 15, 17	51·3	35·6	43·2	—	3	0·12	3	—	Tottenham ..	4·9	—	47	*	*	*	*	53·8	-2·9
														S'thend-on-Sea	4·9	—	47	0	31	50·2	—	—	—
4. MIDLAND COUNTIES.																							
a North .. a Harrogate	479	56	17th	29	15th	50·6	34·7	42·4	- 4·4	2	0·44	11	- 8	Harrogate ..	4·7	+ 1·8	45	4	25	46·1	-3·8	49·8	-1·5
p Sheffield	429	56	17th	34	15th	50·9	38·0	44·3	—	1	0 09	2	—	Sheffield.. ..	5·4	+ 2·7	52	5	25	45·8	-4·7	51·3	-1·3
p Buxton	987	52	18th	30	16th	46·1	33·1	39·4	—	4	0·49	12	- 16	Buxton	2·8	—	27	5	25	42·4	-6·6	50·5	-1·4
b, East .. a Bawtry	65	55	17th	31	13, 15	50·9	35·3	42·9	- 4·7	1	0·11	3	- 11	Worksop ..	2·9	+ 0·3	28	7	18	45·0	—	50·2	—
a Nottingham	82	57	17th	29	15th	50·1	33·6	41·6	- 6·5	1	0·04	1	- 13	Nottingham ..	3·7	+ 1·0	36	5	23	42·0	-8·2	50·3	-3·5
p Birmingham, Edgbsn.	535	57	18th	34	13, 15	50·1	36·6	43·2	- 5·0	4	0·39	10	- 6	Birmingham ..	4·1	+ 1·9	39	7	24	44·1	-5·8	50·6	-1·4
a Raunds	203	58	18th	28	15th	51·4	31·9	41·4	- 7·0	3	0·17	4	- 10	Raunds	5·6	—	54	7	19	47·1	—	53·3	—
p Oxford	208	58	18th	31	15th	51·4	34·1	42·5	- 6·5	4	0·18	5	- 11	Oxford	5·6	+ 2·4	54	5	24	*	*	*	*
c, West .. a Cheadle (N. Staffs.) ..	646	53	17th	31	13th	47·9	33·7	40·6	- 6·3	4	0·53	13	- 5	Malvern ..	5·7	—	55	3	29	46·8	—	53·0	*
p Tenbury	313	60	17th	26	15th	53·9	32·1	42·7	- 5·1	4	0·16	4	- 11	Cheadle	*	*	*	4	27	*	*	*	*
p Ross-on-Wye ..	201	61	17th	30	15th	54·7	35·3	44·7	- 3·8	3	0·12	3	- 14	Tenbury	*	*	*	6	23	46·4	—	—	—
a Clifton	226	55	18th	35	15th	50·6	39·3	44·8	- 5·1	2	0·07	2	- 23	Ross-on-Wye ..	5·7	—	55	6	23	—	—	—	—
														Clifton	5·5	—	53	0	33	*	*	*	*
5. ENGLAND, S.E.																							
a Marlborough	424	57	18th	25	12th	52·3	28·3	39·9	- 7·7	4	0·14	4	- 15	Worthing ..	6·7	+ 2·9	63	7	26	47·3	-6·6	55·0	-1·5
p Salisbury (Wilton) ..	180	59	18th	28	12, 15, 17	54·0	30·6	42·0	- 6·8	2	0·11	3	- 18	Marlborough ..	5·4	+ 2·5	52	7	19	46·3	—	53·1	—
a Wisley, Surrey ..	150	58	18th	29	12th	52·0	32·6	42·0	- 6·9	4	0·17	4	- 13	Salisbury ..	*	*	*	6	25	47·0	*	*	*
a Tunbridge Wells ..	354	57	17th	28	17th	52·7	31 3	41·7	- 8·0	2	0·04	1	- 19	Wisley	5·6	+ 2·4	54	7	19	46·2	-6·1	52·4	-2·5
a Margate	51	54	12, 17	35	17th	51·7	39·1	45·2	- 6·3	1	0·07	2	- 14	Tunbridge Wells	5·1	+ 1·6	49	7	21	49·2	-4·6	54·4	—
														Margate	4·3	+ 1·0	41	1	30	50·4	-2·5	56·5	+1·2
a Dungeness	21	59	18th	30	15–18	54·3	31·7	42·7	- 8·7	2	0·28	7	- 12	Folkestone ..	6·1	—	58	*	*	*	*	52·9	—
p St. Leonards	178	—	—	—	—	—	—	—	—	—	—	—	—	St. Leonards ..	6·4	+ 2·7	60	—	—	—	—	—	—
p Southampton	64	58	17th	30	12, 17	53·7	32·7	42·9	- 8·3	2	0·13	3	- 18	Southampton ..	5·6	+ 2·2	53	7	22	*	*	*	*
a Ventnor	59	59	18th	37	16th	54·3	39·7	46·8	- 6·2	2	0·24	6	- 15	Ventnor	6·4	+ 2·8	60	*	*	*	*	*	*
LONDON. a Richmond (Kew Obs.)	18	55	17, 18	31	12th	50·8	33·1	41·7	- 7·9	2	0·10	3	- 11	Richmond ..	5·0	+ 2·1	48	7	20	44·6	-7·6	52·7	-2·0
a Westminster	27	58	17th	31	15th	52·5	34·3	43·1	- 7·8	2	0·12	3	- 10	Westminster ..	4·8	+ 2·4	44	7	25	*	*	*	*
ag Greenwich	149	57	17th	30	17th	52·4	33·7	42·8	- 6·5	3	0·18	5	- 9	Greenwich ..	4·7	+ 1·7	45	7	20	*	*	*	*
a Hampstead	450	57	17th	30	15th	50·3	33·1	41·5	—	3	0·12	3	—	Hampstead ..	5·1	—	49	7	21	*	*	*	*
ag Camden Square ..	110	58	17th	30	15th	52·6	33·7	42·9	- 7·5	3	0·12	3	- 11	Camden Square	3·9	+ 1·6	38	4	29	*	*	*	*
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	53	17th	29	15th	47·4	35·9	41·5	- 5·8	3	0·33	8	- 16	Aspatria.. ..	3·6	+ 0·5	35	3	25	45·9	-3·2	50·5	-1·3
p Newton Rigg	559	53	17, 18	28	15th	49·0	34·1	41·3	- 5·1	2	0·30	8	- 14	Newton Rigg ..	3·7	+ 1·1	36	6	17	47·0	-3·2	51·1	-0·6
p Stonyhurst	375	53	18th	29	15th	49·3	36·1	42·5	- 5·0	2	0·39	10	- 16	Stonyhurst ..	4·0	+ 1·4	38	1	25	*	*	*	*
p Blackpool	66	56	17th	32	15th	51·9	40·7	46·1	- 2·8	4	1·10	28	+ 7	Blackpool ..	4·2	+ 1·2	40	4	18	48·8	—	52·6	—
a Southport	37	56	17th	34	15th	51·3	40·0	45·5	- 3·4	3	0·74	19	- 1	Southport ..	3·8	+ 0·9	37	3	25	45·4	-4·6	51·3	-2·2
														Hoylake ..	4·2	+ 1·4	40	*	*	*	*	*	*
a Liverpool (Bidston) ..	188	54	17, 18	37	15th	50·1	41·3	45·6	- 3·6	4	0·91	23	+ 4	Liverpool ..	3·7	—	36	1	30	*	*	*	*
a Hawarden Bridge ..	22	59	18th	36	15th	53·0	40·0	46·3	- 3·4	4	1·89	48	+ 31	Manchester(City)	2·3	+ 0·2	22	4	25	43·5	-7·6	52·8	-2·2
a Manchester (Whit. Pk.)	125	56	18th	32	13, 15, 16	50·0	35·7	42·6	- 6·9	3	0·53	13	- 6	Whitworth Park	2·3	+ 0·3	22	*	*	*	*	*	*
b, NORTH WALES.																							
p Llandudno	16	56	18th	38	13th	52·1	41·6	46·7	- 4·0	4	1·07	27	+ 7	Llandudno ..	3·3	+ 0·1	32	*	*	*	*	*	*
a Holyhead	15	55	18th	42	15th	51·4	44·4	47·8	- 3·0	4	0·24	6	- 17	Holyhead ..	2·8	—	27	0	38	*	*	*	*
a Beddgelert	309	—	—	—	—	—	—	—	—	—	—	—	—										
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average	Earth 4 ft. Mean.	Deviation from average
8. *a*, SOUTH WALES.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
a Aberystwyth	59	56	18th	34	15th	51·3	42·4	46·7	—	4	0·56	14	—	Aberystwyth ..	3·7	+ 0·2	36	*	*	*	*	*	*
a Rhayader	757	56	18th	28	15th	49·3	34·4	41·6	—	4	0·62	16	—	Rhayader ..	5·0	—	48	6	20	*	*	*	*
a St. Ann's Head	149	56	18th	43	15, 17	52·0	45·3	48·6	- 3·0	2	0·05	1	- 22	St. Ann's Head	4·3	+ 1·0	41	*	*	*	*	*	*
p Cardiff	202	57	18th	34	15th	52·9	37·3	44·9	- 4·6	2	0·20	5	- 21	Cardiff	5·0	—	48	2	28	47·2	-5·2	53·6	-1·3
b, ENGLAND, S.W.																							
a Bath	66	59	18th	29	17th	54·1	33·9	43·7	- 5·9	4	0·12	3	- 15	Bath	*	*	*	*	*	48·7	-6·6	54·4	-2·8
a Shaftesbury	722	51	17, 18	32	15th	49·4	35·9	42·5	- 6·4	4	0·24	6	- 16	Shaftesbury ..	*	*	*	*	*	47·5	—	54·3	—
a Arlington	613	57	18th	34	17th	52·0	38·5	45·1	- 4·0	3	0·47	12	- 24										
a Newquay	190	58	18th	34	17th	53·1	42·1	47·4	- 4·9	4	0·29	7	- 15	Newquay ..	5·7	+ 2·0	54	*	*	50·9	—	55·9	—
a Cullompton	202	58	18th	28	17th	54·6	33·0	43·5	- 6·0	4	0·32	8	- 15	Cullompton ..	5·0	+ 2·0	47	3	28	48·3	*	*	*
a Portland Bill	19	58	18th	41	12th	54·0	44·4	49·1	- 3·5	1	0·08	2	- 19	Weymouth ..	6·3	—	59	*	*	*	*	*	*
p Plymouth	116	61	18th	31	16th	53·6	37·6	45·4	- 6·1	4	0·29	7	- 15	Plymouth ..	5·8	+ 2·2	55	1	30	48·5	-5·5	54·8	—
a Falmouth	167	59	18th	38	17th	55·7	41·0	48·1	- 3·7	4	0·28	7	- 21	Falmouth ..	6·8	+ 3·0	64	1	29	51·6	—	57·2	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	56	18th	39	15th	52·0	40·9	46·3	- 3·4	4	0·55	14	- 2	Malin Head ..	3·3	—	32	*	*	*	*	*	*
a Blacksod Point ..	37	—	—	—	—	—	—	—	—	5	0·39	10	- 16	Markree Castle	3·7	+ 0·7	36	3	25	51·4	-1·0	54·4	+0·3
p Markree Castle ..	122	59	18th	30	15th	53·0	38·1	45·3	- 2·7	4	0·70	18	- 4										
b, East .. { *p* Armagh	196	56	18th	32	15th	52·0	37·3	44·4	- 3·8	4	0·12	3	- 11	Armagh	4·1	+ 1·1	40	3	25	49·4	-2·3	52·9	-0·7
a Donaghadee	39	57	17th	31	14th	51·7	37·7	44·5	- 5·1	4	0·83	21	+ 6										
10. IRELAND, S.																							
p Dublin, City	47	56	17, 18	35	15th	51·9	39·1	45·3	- 4·7	0	0·01	0·3	- 16	Trinity Coll. ..	*	*	*	—	—	—	—	—	—
a Birr Castle	175	58	18th	31	15th	52·3	36·3	44·1	- 3·7	2	0·13	3	- 14	Phœnix Park ..	5·3	+ 2·0	51	6	17	*	*	*	*
a Kilkenny	195	58	18th	30	15th	52·6	36·1	44·1	- 4·5	4	0·05	1	- 17	Dublin City ..	*	*	*	1	30	*	*	*	*
a Waterford	137	56	17th	35	15th	52·4	39·0	45·5	- 4·7	0	0·00	0·1	- 23	Birr Castle ..	4·6	+ 1·5	44	2	24	*	*	*	*
p Seskin, Carrick-on-Suir	535	56	18th	33	15th	53·3	38·1	45·5	—	1	0·01	0·2	—	Seskin	5·3	—	51	2	30	*	*	*	*
a Cahir	199	57	18th	32	16th	53·6	39·6	46·4	- 2·1	3	0·13	3	—										
a Foynes	50	58	18th	39	15th	53·6	44·3	48·8	- 1·2	2	0·04	1	- 21										
a Cahirciveen (Val. Obs.)	30	58	18th	41	15th	54·1	46·6	50·2	- 1·4	5	0·39	10	- 23	Cahirciveen ..	3·6	+ 0·4	35	0	33	*	*	*	*
a Killarney	174	62	18th	38	15th	55·3	44·9	50·0	- 0·3	5	0·83	21	- 10	Ballinacurra ..	6·0	+ 2·9	58	*	*	*	*	*	*
a Roche's Point	32	57	12, 17, 18	39	15th	54·6	43·6	48·9	- 2·5	3	0·06	2	- 22										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	58	12, 13	44	17th	55·4	46·1	50·6	- 3·0	3	0·20	5	- 15	Scilly	7·0	+ 3·1	66	*	*	*	*	*	*
a Jersey, St. Aubins ..	25	57	17, 18	38	12, 17, 18	55·6	42·3	48·8	- 5·0	4	0·95	24	- 1	St. Heliers ..	6·3	+ 2·1	59	*	*	*	*	*	*
a Guernsey (Villa Carey)	180	61	18th	39	17th	56·1	44·0	49·9	- 4·0	4	0·51	13	- 13	Guernsey† ..	7·0	+ 2·7	66	1	30	52·6	-3·4	57·3	-0·9

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, October 18th, 1919.

DISTRICT AND STATION	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	13 to 17	18	107	36	7	0	326	13	15	18	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	1	124	43	0	360	6	13	11	15	16	7	35
Aberdeen	153	105	52	—	—	13	1	69	70	28	0	45	11	13	10	20	15	13	40
Edinburgh	485	39	37	—	—	16	1	94	73	0	0	259	11	16	24	17	16	23	55
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	—	—	57	87	24	0	350	11	13	12	18	13	11	30
Paisley	188	81	15	—	—	—	—	21	141	6	0	326	8	12	16	15	17	0	2
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	26	105	37	0	304	7	13	10	15	13	13	50
South Shields	72	61	12	—	—	17	2	71	85	10	0	293	11	17	5	17	13	14	50
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Gorleston	52	42	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Shoeburyness	103	90	‡	—	—	—	—	53	106	9	0	337	9	16	9	19	13	16	25
4. MIDLAND COUNTIES																			
Benson	270	84	‡	—	—	—	—	13	91	64	0	315	7	15	12	17	15	19	40
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	32	101	35	0	—	8	15	16	15	15	16	5
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument out of adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	13	3	81	59	25	0	292	12	13	15	14	13	14	20
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	4	95	69	0	259	6	13	14	12	13	15	35
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	—	40	128	0	270	5	12	17	10	12	15	5
Fleetwood (Cup Anr.) ..	109	44	—	—	—	12, 13, 15, 16	38	70	53	7	0	315	16	15	16	—	—	—	—
Southport	80	62	48	—	—	12, 13, 15	27	81	58	2	0	326	15	15	16	23	12	18	10
Holyhead	60	40	‡	—	—	12 to 16	67	58	42	1	0	315	16	13	10	21	13	12	40
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	—	—	79	63	26	0	315	9	13	12	17	13	16	10
Plymouth	185	88	2	—	—	—	—	23	95	50	0	—	9	13	12	16	13	4	20
Lyme Regis	556	61	‡	—	—	—	—	18	81	60	9	—	9	13	14	15	13	13	40
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	13 to 15	21	89	45	13	0	259	13	13	5	—	—	—	—
Quilty	100	40	‡	—	—	13, 15	10	90	35	9	24	—	12	15	16	17	14	15	10
Cahirciveen (Val. Obs.)	98	41	‡	—	—	—	—	80	75	13	0	345	10	13	13	18	13	1	30
Weaver Pt.	160	30	‡	—	—	12	1	63	91	13	0	—	11	12	16	17	13	15	35
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	15	1	87	55	25	0	315	11	15	21	19	13	17	20

† More exactly the ranges adopted for this classification are > 17·2, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.
* Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FORTY-SECOND WEEK of 1919—October 12th to October 18th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Temperature of the Air. At any "D.-V." Station. Lowest	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Accumulated Deviation from Normal.	Accumulated Below 42°	Accumulated Deviation from Normal.	Rainfall. Number of Rain-Days.	Rainfall. Deviation from Normal.	Rainfall. Total Fall.	Rainfall. Deviation from Normal.	Sunshine. Daily Mean.	Sunshine. Deviation from Normal.	Sunshine. Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr	hr.	%	mb.
0. SCOTLAND, NORTH ...	56	30	81·6	75·9	78·7	− 2·3	22	− 17	13	+ 6	6	+ 1	1·08	27	+ 2	2·5	−0·2	25	1014
Eastern.																			
1. SCOTLAND, EAST ..	59	28	81·9	75·5	78·6	− 2·4	24	− 17	15	+ 7	4	0	0·66	17	− 2	2·6	0·0	26	1014
2. ENGLAND, N.E.	60	27	83·2	74·8	78·9	− 3·2	32	− 16	19	+16	3	− 1	0·36	9	− 9	4·2	+1·3	40	1014
3. ENGLAND, EAST ...	58	25	83·3	73·8	78·4	− 4·3	24	− 33	34	+30	3	− 1	0·30	8	− 7	4·6	+1·4	44	1016
4. MIDLAND COUNTIES ..	61	26	83·7	74·5	78·9	− 3·0	36	− 14	20	+14	3	− 1	0·22	6	− 11	4·7	+1·8	45	1017
5. ENGLAND, S.E.	59	25	84·6	73·7	79·0	− 4·4	43	− 21	25	+22	2	− 2	0·14	4	− 15	5·7	+2·3	54	1018
Western.																			
6. SCOTLAND, WEST ..	59	28	83·6	76·3	79·8	− 2·0	33	− 15	11	+ 6	2	− 2	0·26	7	− 18	3·8	+1·3	36	1016
7. ENGLAND, N.W.	59	28	83·2	76·8	79·9	− 2·6	31	− 21	9	+ 7	3	− 1	0·73	19	− 3	3·8	+1·1	37	1018
8. ENGLAND, S.W.	61	28	84·6	76·4	80·3	− 3·0	39	− 23	11	+ 9	3	− 1	0·27	7	− 18	5·2	+1·9	50	1020
9. IRELAND, NORTH ...	59	30	84·2	76·4	80·2	− 2·2	37	− 15	11	+ 8	4	0	0·45	11	− 9	3·9	+0·9	38	1019
10. IRELAND, SOUTH ...	62	30	84·9	78·1	81·3	− 1·7	39	− 21	3	0	3	− 1	0·18	5	− 18	4·9	+1·7	47	1022
11. ENGLISH CHANNEL ...	61	38	86·2	79·7	82·9	− 2·3	55	− 27	0	0	4	− 1	0·55	14	− 9	6·8	+2·7	64	1021

THE SEASON (Autumn).—Aggregates, &c., for the Period of 7 Weeks, August 31st to October 18th, 1919.

0. SCOTLAND, NORTH ...	71	30	85·8	79·5	82·5	− 0·4	368	− 40	14	− 2	36	+ 3	7·40	187	+ 15	3·6	+0·5	30	1012
Eastern.																			
1. SCOTLAND, EAST ...	75	24	87·0	78·8	82·7	− 0·4	412	− 22	29	+ 9	27	+ 1	3·60	92	− 15	4·3	+0·7	37	1013
2. ENGLAND, N.E.	85	27	88·5	79·5	83·8	− 0·5	507	− 10	27	+ 21	22	− 2	2·17	56	− 34	4·8	+0·8	41	1016
3. ENGLAND, EAST ...	88	25	89·2	79·8	84·3	− 0·8	552	− 38	45	+ 37	17	− 6	1·61	42	− 46	5·4	+0·9	46	1017
4. MIDLAND COUNTIES ...	90	26	88·7	79·0	83·7	− 0·7	522	− 15	46	+ 30	18	− 5	2·08	53	− 40	4·9	+1·0	41	1018
5. ENGLAND, S.E.	85	25	89·7	80·4	84·9	− 0·8	608	− 29	35	+ 28	14	− 9	1·67	43	− 61	5·6	+1·0	48	1018
Western.																			
6. SCOTLAND, WEST ...	73	28	87·1	80·0	83·4	− 0·4	451	− 31	14	+ 4	28	+ 2	5·24	134	− 28	4·3	+0·7	36	1016
7. ENGLAND, N.W.	84	26	87·8	80·6	84·0	− 0·6	497	− 44	9	+ 5	23	− 3	3·61	91	− 37	4·7	+0·9	40	1017
8. ENGLAND, S.W.	86	27	88·8	80·8	84·6	− 0·7	558	− 45	14	+ 10	22	− 4	2·53	64	− 76	5·2	+0·9	44	1018
9. IRELAND, NORTH ...	75	30	88·0	80·5	84·0	− 0·2	495	− 11	11	+ 6	32	+ 2	4·59	116	− 14	3·8	+0·3	32	1016
10. IRELAND, SOUTH ...	75	30	88·7	81·6	85·0	+ 0·1	572	+ 3	3	− 2	27	0	3·26	83	− 48	4·5	+0·5	38	1019
11. ENGLISH CHANNEL ...	83	38	90·0	83·8	86·8	− 0·3	729	− 22	0	0	19	− 8	3·16	79	− 44	6·1	+0·8	51	1019

THE YEAR 1919.—Aggregates, &c., for the Period of 42 Weeks, December 29th, 1918, to October 18th, 1919.

0. SCOTLAND, NORTH ...	78	11	83·7	77·6	80·5	− 0·7	1757	−193	694	+ 139	183	−11	33·40	850	−114	3·7	+0·2	28	1012
Eastern.																			
1. SCOTLAND, EAST ...	78	5	84·7	77·0	80·7	− 0·7	1976	−196	816	+ 179	149	−15	19·86	510	− 98	4·3	+0·2	33	1012
2. ENGLAND, N.E.	85	11	85·8	78·3	81·9	− 0·4	2388	−106	605	+ 127	148	0	18·77	478	− 14	4·3	−0·2	33	1013
3. ENGLAND, EAST ...	88	10	86·5	78·5	82·3	− 0·7	2619	−245	625	+ 123	135	− 8	18·61	477	+ 10	4·7	−0·2	36	1014
4. MIDLAND COUNTIES ...	90	9	86·5	78·2	82·2	− 0·5	2627	−146	674	+ 136	134	− 8	21·63	550	+ 28	4·4	0·0	34	1014
5. ENGLAND, S.E.	86	16	87·1	79·2	83·0	− 0·6	2870	−178	486	+ 100	130	− 9	20·91	529	+ 16	4·9	−0·2	38	1015
Western.																			
6. SCOTLAND, WEST ...	83	14	85·3	78·3	81·6	− 0·6	2184	−201	553	+ 127	161	−10	29·33	746	−146	4·6	+0·3	35	1013
7. ENGLAND, N.W.	84	16	85·6	79·0	82·2	− 0·5	2408	−195	503	+ 117	145	−11	23·03	585	− 93	4·5	+0·1	34	1014
8. ENGLAND, S.W.	86	15	86·5	79·4	82·8	− 0·6	2690	−183	423	+ 118	146	− 9	26·93	684	− 42	5·1	+0·2	39	1015
9. IRELAND, NORTH ...	78	22	85·6	78·9	82·1	− 0·5	2313	−165	448	+ 103	181	− 8	25·57	644	− 97	4·1	+0·2	32	1013
10. IRELAND, SOUTH ...	80	22	86·7	79·7	83·1	− 0·3	2723	−126	365	+ 100	169	+ 2	24·79	631	−137	4·5	+0·1	34	1015
11. ENGLISH CHANNEL ...	85	26	87·2	81·6	84·3	− 0·4	3173	−168	137	+ 32	145	−15	28·34	716	+122	5·6	−0·2	43	1016
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F			inches.	mm.	mm	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: October 24th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. *Vol. XXXVI. (New Series.)* } No. 43.

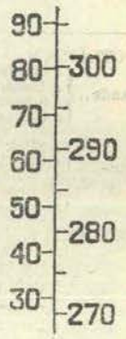
THE FORTY-THIRD WEEK OF 1919.

SUNDAY, OCTOBER 19TH, TO SATURDAY, OCTOBER 25TH, 1919.

Price 6d. Net, Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d. Net.

I.—GENERAL SUMMARY. [First published in 1878.]

For the first half of the week the anticyclonic conditions recently noticed were maintained and fine weather still held, although morning fogs were very prevalent until Wednesday or Thursday. On Sunday in the metropolis the fog was very partial; over the central districts it was quite dense all day, but in the suburbs it lifted at about 10 h. and five or six hours of bright sunshine were afterwards recorded; at Geldeston on the same day there was 9·1 hr., equal to 92 per cent. of the possible. From Thursday to the end of the week a depression was passing south-eastwards over our Islands, and the weather underwent a complete change, heavy rain falling in nearly all parts of Great Britain. In the rear of the depression a northerly wind set in, accompanied by much lower day temperatures. The mean temperature for the week was slightly below the normal in England E. and England S.E., but in all other Districts it was above it, the greatest excess being about 3 a. over Ireland. Maxima of 290 a. and above were recorded on the 20th or 21st in most parts of the United Kingdom, the actual highest being 292 a. at Gordon Castle and Killarney. The lowest of the minima occurred on various dates; readings of 270 a. were registered in Scotland W. (at Ford, Argyll), in England E. (at Cambridge), and in England S.E. (at Wisley). On the grass the temperature went down to 267 a. in most inland districts, the lowest reading being 266 a. at Ford and Greenwich. The greater part of the week's total rainfall fell on two days, the 23rd and 24th; amounts of 20mm. or more in a day were reported in most districts, England E. and England S.E. being the exceptions; at Clifton, Cardiff, and Collumpton the aggregate for the two days exceeded 50mm. The area where the total rainfall exceeded the normal comprised the central districts, the extreme north, south, east and west being generally deficient. A display of aurora was witnessed at Aberdeen on the 23rd; solar halos were seen at Oxford on the 19th, 20th and 23rd and a sun pillar on the 21st. At South Farnborough also on the 23rd there was a solar halo.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E.† Shoeburyness.		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	20	5·3	14	6·9	8	1·9	8	2·0	20	5·1	20	4·6	17	5·8	18	6·2
North	8	5·1	9	4·9	5	4·4	5	4·7	8	6·5	6	10·2	9	10·3	10	7·6
West	14	2·6	14	2·2	1	0·5	2	1·0	20	1·6	5	4·2	3	3·9	2	1·2
East	4	1·4	8	3·5	12	2·0	9	1·5	8	9·1	19	2·8	16	2·3	26	2·2
Calm	0	—	4	—	14	—	15	—	0	—	0	—	2	—	0	—

* For Deerness the week ends at midnight on Friday. † Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Very unusual	Unusual	Moderate	Moderate	Moderate	Moderate	Unusual	Unusual	Unusual	Very unusual	Unusual	Unusual
	Rainfall ...	Light	Moderate	Heavy	Very light	Heavy	Light	Moderate	Heavy	Moderate	Moderate	Moderate	Light
	Sunshine ...	Moderate	Moderate	Moderate	Moderate	Moderate	Abundant	Scanty	Moderate	Moderate	Moderate	Moderate	Moderate

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

AUTUMN. 8 weeks from August 31st, 1919.	Warmth ...	2, 3, 3	3, 3, 2	2, 4, 2	2, 3, 3	2, 4, 2	2, 2, 4	4, 1, 3	3, 2, 3	2, 2, 4	4, 1, 3	4, 2, 2	2, 3, 3
	Rainfall ...	2, 4, 2	1, 5, 2	2, 3, 3	0, 3, 5	1, 4, 3	0, 3, 5	1, 4, 3	1, 3, 4	0, 3, 5	0, 5, 3	1, 3, 4	1, 2, 5
	Sunshine ...	4, 3, 1	5, 3, 0	5, 2, 1	3, 5, 0	4, 3, 1	5, 2, 1	5, 1, 2	6, 2, 0	4, 2, 2	4, 2, 2	3, 5, 0	4, 3, 1

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{5}{9}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

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IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

['TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.			Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																							
a, Islands.. a Lerwick	54	54	20–22	34	25th	51·9	42·9	47·3	+ 3·0	3	0·33	8	- 14										
a Houton Bay, Orkney	520	60	21st	33	25th	50·0	41·0	45·4	—	—	—	—	—										
a Stornoway	51	56	21st	34	25th	52·4	45·6	48·9	+ 4·2	6	1·22	31	+ 2	Houton Bay ..	—	—	—	•	•	•	•	•	•
a Castlebay, Barra I. ..	37	55	20, 21	39	25th	52·3	47·6	49·9	—	5	0·59	15	—	Stornoway ..	2·2	- 0·7	23	•	•	•	•	•	•
														Castlebay ..	2·7	—	28	•	•	•	•	•	•
b, Mainland. a Wick	81	56	21st	30	25th	52·1	43·7	47·8	+ 3·4	4	0·59	15	- 1										
a Strathpeffer	125	63	21st	29	25th	53·4	41·0	47·0	+ 3·1	2	0·35	9	- 5										
p Glencarron	500	—	—	—	—	—	—	—	—	—	—	—	—										
a Fort Augustus.. ..	68	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William	171	57	21st	30	25th	52·6	44·4	48·4	+ 3·2	5	1·07	27	- 12										
1. SCOTLAND, E.																							
a Nairn	82	63	21st	31	25th	53·6	43·6	48·5	+ 4·9	3	0·45	11	- 2	Nairn	2·4	—	25	•	•	•	•	•	•
p Gordon Castle	101	66	21st	34	25th	55·9	42·4	49·0	+ 4·3	5	1·13	29	+ 12	Gordon Castle..	2·6	—	27	•	•	•	•	•	•
a Aberdeen	46	62	21st	37	25th	53·7	42·7	48·0	+ 3·7	5	0·64	16	0	Aberdeen ..	3·1	+ 0·3	32	1	30	•	•	48·0	-1·5
a Balmoral	930	61	22nd	30	25th	53·7	40·3	46·8	+ 5·8	4	0·34	9	- 11	Balmoral ..	•	•	•	2	29	•	•	•	•
p Crieff	432	55	22nd	33	25th	52·4	42·0	47·1	+ 2·8	4	0·40	10	- 12	Crathes	2·7	- 0·1	28	2	26	46·1	-1·3	48·3	-1·7
a Dundee	244	58	22nd	29	25th	53·0	41·1	46·9	+ 2·7	2	0·77	20	+ 6	Dundee	1·9	—	20	1	23	45·9	•	•	•
a Leith	30	62	22nd	41	25th	54·7	45·9	50·2	+ 4·2	2	1·18	30	+ 17	Leith	•	•	•	0	35	•	•	•	•
p Edinburgh	441	63	21st	38	25th	54·0	45·1	49·4	+ 4·5	2	1·22	31	+ 17	Edinburgh ..	1·9	- 1·1	20	0	34	•	•	•	•
a West Linton	769	62	21st	35	25th	52·6	42·3	47·3	+ 5·9	4	1·06	27	—	West Linton ..	1·9	—	20	2	29	•	•	•	•
p Marchmont	498	62	21st	33	25th	53·0	41·6	47·1	+ 3·4	3	1·20	30	+ 10	Marchmont .	1·2	- 1·3	12	•	•	•	•	•	•
6. a, SCOTLAND, W.																							
a Ford (Argyll)	149	56	23rd	26	25th	53·2	43·9	48·4	—	5	1·45	37	—	Ford (Argyll) ..	•	•	•	2	18	49·5	—	50·9	—
p Glasgow Observatory	180	57	21, 22	35	25th	53·3	44·4	48·7	+ 3·8	3	0·73	19	0	Glasgow.. ..	0·7	- 1·2	7	2	22	•	•	•	•
p Rothesay	200	56	23rd	35	25th	52·7	45·0	48·7	+ 3·0	5	1·05	27	+ 2	Rothesay ..	1·4	—	14	1	29	49·0	—	49·8	-0·7
a Kilmarnock	90	60	21st	31	25th	54·7	45·1	49·8	+ 5·6	3	0·58	15	- 4	Kilmarnock ..	1·7	—	18	•	•	48·5	—	49·8	—
a Colmonell	170	60	21st	38	25th	54·9	47·1	50·9	+ 5·3	3	0·77	20	- 5	Colmonell ..	•	•	•	0	33	•	•	•	•
p Cally, Gatehouse ..	120	58	21st	39	25th	52·7	44·1	48·3	+ 3·7	4	2·30	58	+ 32	Dumfries ..	2·1	—	22	0	32	48·2	+0·7	49·9	-1·7
p Dumfries	160	61	21st	34	25th	54·0	42·6	48·1	+ 3·0	3	0·88	22	+ 2	Eskdalemuir ..	2·2	—	23	1	29	•	•	•	•
a Eskdalemuir	794	60	21st	32	22nd	51·7	38·6	45·0	—	3	1·83	46	—										
b, I. OF MAN p Douglas	277	57	21, 22	39	25th	53·7	47·7	50·6	+ 3·9	3	1·85	47	+ 22	Douglas	2·3	- 0·8	24	0	41	•	•	•	•
2. ENGLAND, N.E																							
a North .. a Alnwick Castle ..	210	—	—	—	—	—	—	—	—	—	—	—	—										
a Tynemouth	118	60	19, 21	41	19, 22, 23	53·6	42·6	47·9	+ 1·9	3	1·15	29	+ 12	Cockle Park ..	1·6	- 1·1	16	3	28	44·8	-0·9	47·6	-1·6
p Durham	336	62	19th	33	25th	53·1	38·1	45·4	+ 0·4	3	1·29	33	+ 15	Durham ..	2·5	+ 0·1	26	3	27	•	•	•	•
p Rounton	249	63	21st	34	25th	54·3	40·9	47·4	+ 2·5	4	1·22	31	+ 14	Rounton ..	•	•	•	4	25	46·5	•	•	•
a West Witton	605	60	19, 21	31	22nd	53·0	37·7	45·1	—	2	1·48	38	—	West Witton ..	•	•	•	1	30	44·3	—	47·5	—
p Scarborough	100	—	—	—	—	—	—	—	—	2	0·65	17	- 2	Scarborough† ..	4·1	+ 1·5	41	•	•	•	•	55·1	—
p York	56	59	21st	34	19th	54·9	39·6	47·0	+ 0·8	3	0·86	22	+ 6	York	2·4	+ 0·2	24	—	—	47·2	-2·9	50·8	-1·9
b, South .. a Spurn Head	26	60	19th	40	23rd	53·9	42·4	48·0	+ 0·2	3	0·17	4	- 10	Spurn Head ..	•	•	•	•	•	•	•	•	•
a Lincoln	58	61	19, 21	35	20th	56·3	39·4	47·6	+ 1·5	2	0·74	19	+ 4	Lincoln	•	•	•	0	32	45·4	-3·3	50·0	-3·0
a Fulbeck	180	64	20th	35	19th	56·0	39·9	47·7	+ 1·5	3	0·84	21	+ 6	Fulbeck ..	3·9	+ 1·1	39	•	•	—	—	—	—
														Skegness ..	4·2	+ 1·1	43	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	62	20th	31	23rd	57·3	35·3	46·0	- 1·7	7	0·09	2	- 14	Cromer	4·6	+ 1·7	46	•	•	•	•	•	•
a Little Massingham ..	280	60	20th	37	19, 23	55·9	39·7	47·6	+ 1·4	1	0·01	0·2	- 19	Lit. Massingham	4·1	+ 1·5	41	•	•	•	•	•	•
a Yarmouth	13	59	19th	40	19–21, 24	55·3	41·6	48·3	+ 0·7	2	0·17	4	- 14	Yarmouth ..	5·0	—	51	0	37	48·3	-2·1	51·3	-3·0
a Norwich	93	58	19th	33	23rd	54·9	37·7	46·1	- 0·6	1	0·01	0	- 19	Norwich ..	4·4	—	44	4	27	43·6	•	•	•
a Geldeston	37	62	19th	28	23rd	58·6	34·0	45·9	- 1·4	1	0·08	2	- 15	Geldeston ..	4·4	+ 1·5	44	•	•	•	•	•	•
p Cambridge	41	62	19–21	27	23rd	58·1	35·3	46·4	- 0·2	1	0·01	0·3	- 14	Cambridge ..	3·6	+ 0·7	36	5	21	46·6	-3·8	51·7	-2·6
a Clacton-on-Sea ..	54	58	23rd	36	23rd	55·1	41·3	48·0	0·0	3	0·06	1	- 11	Clacton	5·5	+ 2·4	55	1	30	48·7	-3·8	52·7	-2·4
a Rothamsted	424	58	19th	26	23rd	53·6	34·7	43·9	- 2·1	2	0·23	6	- 13	Rothamsted ..	2·5	- 0·3	25	5	21	45·2	•	•	•
p Tottenham	51	58	20, 21	35	19th	54·3	39·6	46·7	—	1	0·17	4	—	Tottenham ..	0·5	—	5	•	•	•	•	51·8	-3·9
														S'thend-on-Sea	4·6	—	46	0	34	50·0	-2·4	—	—
4. MIDLAND COUNTIES.																							
a North .. a Harrogate	479	62	19th	35	22nd	53·1	39·9	46·3	+ 1·5	2	1·61	41	+ 22	Harrogate ..	2·5	0·0	25	1	30	46·3	-2·0	48·4	-1·8
p Sheffield	429	64	21st	39	19th	56·4	42·6	49·3	—	2	1·41	36	—	Sheffield.. ..	3·4	+ 1·1	34	1	29	46·7	-2·0	50·0	-1·8
p Buxton	987	60	19th	35	19th	52·4	40·4	46·2	—	2	1·27	32	+ 3	Buxton	3·2	—	32	1	30	44·3	-2·8	49·0	-2·1
b, East .. a Bawtry	65	62	19th	34	19, 22	56·3	40·3	48·1	+ 2·4	2	0·97	25	+ 11	Worksop ..	2·7	+ 0·5	27	4	24	45·4	—	48·6	—
a Nottingham	82	64	21st	31	20th	56·3	35·7	45·7	- 0·4	2	1·26	32	+ 18	Nottingham ..	3·1	+ 0·9	31	3	27	44·6	-3·4	48·4	-4·1
p Birmingham, Edgbsn.	535	62	21st	39	20, 22	55·6	41·1	48·1	+ 1·9	2	1·78	45	+ 29	Birmingham ..	3·3	+ 1·4	33	2	28	46·4	-1·8	49·6	-1·8
a Raunds	203	65	21st	29	23rd	57·6	35·1	46·0	- 0·1	2	0·44	11	- 4	Raunds	3·2	—	32	4	22	44·9	—	51·6	—
p Oxford	208	63	21st	30	23rd	56·4	36·4	46·1	- 0·9	2	0·98	25	+ 9	Oxford	3·3	+ 0·6	33	4	24	•	•	•	•
c, West .. a Cheadle (N. Staffs.) ..	646	57	21st	36	19th	51·7	40·3	45·8	+ 0·9	2	1·63	41	+ 22	Malvern	3·8	—	38	0	31	48·1	—	51·3	•
p Tenbury	313	61	21st	31	20th	56·3	36·9	46·3	+ 0·4	2	0·90	23	+ 8	Cheadle	•	•	•	0	31	•	•	•	•
p Ross-on-Wye ..	201	62	19th	32	19th	57·1	39·7	48·1	+ 1·6	2	1·85	47	+ 30	Tenbury	•	•	•	3	28	46·8	—	—	—
a Clifton	226	59	21st	40	19, 20, 23	54·7	43·0	48·7	+ 0·8	2	2·31	59	+ 33	Ross-on-Wye ..	3·2	—	32	2	29	—	—	—	—
														Clifton	3·1	—	31	0	36	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	60	19, 20	29	19, 20, 23	55·9	35·1	45·2	- 0·3	3	0·77	20	- 2	Worthing ..	5·1	+ 1·6	50	1	29	47·2	-5·0	52·8	-2·8
p Salisbury (Wilton) ..	180	62	19th	29	23rd	57·6	36·4	46·7	0·0	2	0·56	14	- 11	Marlborough ..	3·0	+ 0·4	30	4	23	46·8	—	51·7	—
a Wisley, Surrey ..	150	62	19–21	26	23rd	58·0	32·4	44·8	- 2·0	1	0·24	6	- 13	Salisbury ..	•	•	•	4	28	47·1	•	•	•
a Tunbridge Wells ..	354	61	19th	33	23rd	56·9	38·1	47·2	- 0·3	1	0·04	1	- 23	Wisley	3·4	+ 0·5	34	6	22	45·5	-4·8	50·6	-3·2
a Margate	51	59	19th	44	19, 23	56·3	45·7	50·8	+ 1·5	1	0·07	2	- 16	Tunbridge Wells	4·0	+ 0·8	40	5	24	48·6	-0·7	52·6	—
														Margate	4·6	+ 1·6	46	1	29	49·9	-1·0	54·4	+0·1
a Dungeness	21	58	19, 20	30	23rd	55·4	40·1	47·5	- 1·8	1	0·04	1	- 20	Folkestone ..	4·4	—	44	•	•	•	•	51·8	—
p St. Leonards	178	—	—	—	—	—	—	—	—	—	—	—	—	St. Leonards ..	5·1	+ 1·7	51	—	—	—	—	—	—
p Southampton	64	62	19th	33	19th	57·4	40·0	48·4	- 0·7	2	0·50	13	- 11	Southampton ..	3·7	+ 0·6	37	4	26	•	•	•	•
a Ventnor	59	62	19th	47	25th	57·6	50·6	54·0	+ 3·0	2	0·52	13	- 11	Ventnor	4·2	+ 0·8	42	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	61	20th	29	23rd	56·9	35·0	45·6	- 1·9	1	0·14	4	- 12	Richmond ..	2·7	+ 0·1	27	4	23	44·8	-5·5	50·9	-2·9
a Westminster	27	61	20th	34	20th	57·0	38·9	47·7	- 1·1	1	0·18	5	- 10	Westminster ..	1·8	- 0·1	18	3	26	•	•	•	•
ag Greenwich	149	63	20th	30	23rd	58·4	36·7	47·2	- 0·4	1	0·13	3	- 11	Greenwich ..	3·8	+ 1·2	38	6	19	•	•	•	•
a Hampstead	450	59	19th	37	19, 20	55·4	40·4	47·7	—	2	0·20	5	—	Hampstead ..	2·3	—	25	5	25	•	•	•	•
ag Camden Square ..	110	59	21st	33	23rd	54·6	37·6	45·9	- 2·3	1	0·19	5	- 11	Camden Square	0·9	- 1·1	9	2	28	•	•	•	•
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	59	21, 22	35	25th	53·4	42·7	47·9	+ 2·9	3	1·57	40	+ 16	Aspatria.. ..	2·1	- 0·9	22	0	37	47·6	0·0	49·6	-1·5
p Newton Rigg	559	64	21st	30	25th	53·9	39·9	46·7	+ 2·8	3	1·18	30	+ 9	Newton Rigg ..	1·5	- 1·0	15	2	22	47·7	-0·8	49·9	-0·8
p Stonyhurst	376	58	19, 21	36	19th	53·1	42·3	47·5	+ 2·3	3	1·19	30	+ 3	Stonyhurst ..	2·2	- 0·2	22	0	34	•	•	•	•
p Blackpool	66	61	21st	40	19th	54·6	43·7	49·0	+ 2·4	3	1·49	38	+ 16	Blackpool ..	2·9	- 0·1	29	0	31	49·1	—	51·6	—
a Southport	37	62	21st	39	19th	55·0	43·6	49·1	+ 2·5	2	1·44	37	+ 17	Southport ..	3·0	+ 0·2	30	0	33	46·9	-0·8	50·1	-1·9
														Hoylake ..	2·8	0·0	28	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	59	21st	41	19th	54·0	44·0	48·9	+ 1·9	2	1·10	28	+ 10	Liverpool ..	3·0	—	30	0	36	•	•	•	•
a Hawarden Bridge ..	22	63	21st	39	19th	55·9	44·4	50·0	+ 2·6	2	1·33	34	+ 18	Manchester(City)	1·7	0·0	17	1	30	45·6	-3·6	50·8	-3·3
a Manchester (Whit. Pk.)	125	62	21st	37	19th	55·7	43·0	49·2	+ 2·2	2	1·02	26	+ 7	Whitworth Park	2·3	+ 0·6	23	•	•	•	•	•	•
b, NORTH WALES.																							
p Llandudno	16	64	19th	41	24th	59·1	45·0	51·8	+ 3·3	3	1·52	39	+ 19	Llandudno ..	2·7	- 0·4	27	•	•	•	•	•	•
a Holyhead	15	61	21st	46	25th	54·9	49·0	51·9	+ 3·2	4	1·32	54	+ 10	Holyhead ..	2·4	—	24		42	•	•	•	•
a Beddgelert	309	—	—	—	—	—	—	—	—	—	—	—	—										
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
8. *a.* SOUTH WALES.																							
a Aberystwyth	59	63	22nd	45	19, 25	57·1	48·0	52·4	—	3	1·35	31	—	Aberystwyth ..	2·8	- 0·3	28	•	•	•	•	•	•
a Rhayader	767	60	22nd	30	19th	55·0	39·3	46·9	—	3	1·12	28	—	Rhayader ..	2·4	—	24	2	23	•	•	•	•
a St. Ann's Head ..	149	58	21st	46	25th	55·4	50·9	53·1	+ 3·3	2	0·79	20	- 5	St. Ann's Head ..	1·2	- 1·7	12	•	•	•	•	•	•
p Cardiff	202	61	21st	37	19th	56·1	41·7	48·7	+ 1·4	2	2·14	54	+ 26	Cardiff	2·7	—	27	0	31	48·2	-2·3	52·1	-1·9
b, ENGLAND, S.W.																							
a Bath	66	63	20th	32	19th	58·1	37·9	47·7	+ 0·2	2	1·56	40	+ 21	Bath	•	•	•	•	•	48·4	-4·7	52·7	-3·6
a Shaftesbury	722	58	19, 20	43	23, 25	54·4	45·0	49·6	+ 2·8	2	0·80	20	- 3	Shaftesbury ..	•	•	•	•	•	49·4	—	53·1	—
a Arlington	613	59	19th	44	23, 25	54·9	47·1	50·9	+ 3·8	2	1·00	25	- 13										
a Newquay	190	59	19, 22	44	19th	56·8	48·6	52·6	+ 2·2	3	0·36	9	- 15	Newquay ..	2·6	- 0·7	26	•	•	52·0	—	54·7	—
a Cullompton	202	64	21st	32	19, 23	57·7	38·6	47·9	+ 0·5	2	1·96	50	+ 26	Cullompton ..	2·5	- 0·1	25	0	31	48·2	•	•	•
a Portland Bill	19	60	19th	45	25th	57·4	52·0	54·6	+ 3·9	2	0·95	24	+ 3	Weymouth ..	3·3	—	33	•	•	•	•	•	•
p Plymouth	116	61	19, 24	41	25th	58·0	47·1	52·4	+ 2·8	3	1·13	29	+ 5	Plymouth ..	3·5	+ 0·4	35	0	40	49·9	-2·4	53·4	—
a Falmouth	167	60	19, 20	46	25th	56·6	49·7	53·1	+ 3·1	4	0·56	14	- 16	Falmouth ..	2·4	- 0·9	24	0	38	53·8	—	55·6	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	—	—	40	25th	—	46·9	—	—	3	0·12	3	- 15	Malin Head ..	3·4	—	34	•	•	•	•	•	•
{ *a* Blacksod Point ..	37	62	19, 21	44	24th	55·9	49·4	52·6	+ 4·8	7	0·96	25	- 4	Markree Castle	2·0	- 0·8	20	0	37	52·4	+1·9	53·4	0·0
{ *p* Markree Castle ..	122	62	21st	41	25th	57·4	47·4	52·3	+ 7·1	3	0·43	11	- 13										
b, East .. { *p* Armagh	196	63	21st	33	25th	56·9	44·4	50·5	+ 5·2	4	0·67	17	+ 1	Armagh	3·4	+ 0·5	34	1	23	50·6	+0·8	51·9	-0·8
{ *a* Donaghadee	39	60	21, 23	42	24th	55·7	47·6	51·5	+ 4·7	4	0·98	25	+ 8										
10. IRELAND, S.																							
p Dublin, City	47	61	19th	42	25th	56·1	46·6	51·2	+ 3·7	4	1·68	43	+ 27	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
a Birr Castle	175	62	21st	31	25th	56·4	46·9	51·5	+ 6·2	2	0·59	15	- 3	Phœnix Park ..	2·5	- 0·7	25	3	27	•	•	•	•
a Kilkenny	195	60	21st	37	25th	55·6	46·1	50·7	+ 4·7	3	0·28	7	- 12	Dublin City ..	•	•	•	0	37	•	•	•	•
a Waterford	137	59	19th	40	25th	53·4	47·0	50·1	+ 2·5	3	0·26	7	- 17	Birr Castle ..	2·7	- 0·3	27	1	23	•	•	•	•
p Seskin, Carrick-on-Suir	535	57	19, 20	36	25th	53·1	44·7	48·8	—	3	0·57	15	—	Seskin	1·4	—	14	0	34	•	•	•	•
a Cahir	199	61	21st	37	25th	57·4	46·7	51·9	+ 5·9	4	0·39	10	—										
a Foynes	50	63	20, 22	39	25th	57·9	49·4	53·5	+ 6·1	3	0·69	17	- 6										
a Cahirciveen (Val. Obs.)	30	63	21st	45	25th	56·9	51·9	54·3	+ 5·1	6	1·18	30	- 4	Cahirciveen ..	2·4	- 0·7	24	0	43	•	•	•	•
a Killarney	174	66	21st	36	25th	58·6	50·0	54·2	+ 6·4	4	0·48	12	- 21	Ballinacurra ..	—	—	—	•	•	•	•	•	•
a Roche's Point	32	58	22, 23	39	25th	55·4	50·6	52·9	+ 3·9	4	0·37	9	- 16										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	58	21st	47	25th	55·4	50·1	53·7	+ 0·5	3	0·63	16	- 8	Scilly	1·2	- 2·1	12	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	64	20th	41	23rd	58·6	46·4	52·3	+ 0·2	2	0·12	3	- 27	St. Heliers ..	4·2	+ 0·7	42	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	63	19th	42	25th	59·3	48·1	53·5	+ 1·3	3	0·62	16	- 15	Guernsey† ..	4·4	+ 0·9	44	0	37	52·6	-1·7	55·9	-1·4

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, October 25th, 1919.

DISTRICT AND STATION	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N. Deerness (Cup Anr.)** ..	188	16	5	—	—	18	1	87	76	4	0	236	12	18	17	—	—	—	—
1. SCOTLAND, E. Dyce	305	75	15*	—	—	—	—	1	116	46	5	169	6	20	10	14	20	9	40
Aberdeen	153	105	52	—	—	—	—	15	133	20	0	169	9	20	11	15	22	11	15
Edinburgh	485	39	31	—	—	20, 22, 23	13	75	48	32	0	191	13	20	7	21	20	7	0
6. SCOTLAND, W. Eskdalemuir	825	50	22	—	—	23	3	81	54	30	0	30	12	23	22	20	23	22	10
Paisley	188	81	15	—	—	—	—	6	123	30	9	67	7	23	15	14	23	14	45
2. ENGLAND, N.E. Alnwick Castle	340	70	17	—	—	—	—	4	58	106	0	360	6	23	24	12	24	12	25
South Shields	72	61	12	—	—	24	1	49	83	35	0	45	11	24	7	15	24	0	40
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E. Gorleston	52	42	‡	—	—	25	2	38	69	0	59	—	11	25	21	17	25	19	30
Shoeburyness	103	90	‡	—	—	—	—	11	82	75	0	34	8	25	12	13	25	11	0
4. MIDLAND COUNTIES. Benson	270	84	‡	—	—	—	—	10	110	48	0	23	7	25	11	13	25	13	25
5. ENGLAND, S.E. Brighton	261	53	6	—	—	—	—	7	135	26	0	—	7	25	12	12	25	12	45
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument out of adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	25	7	59	102	0	0	23	13	25	11	17	25	10	40
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	8	55	105	0	23	8	25	14	13	25	14	0
7. ENGLAND, N.W. Carnforth	246	56	23	—	—	—	—	6	31	131	0	34	8	24	11	14	24	10	20
Fleetwood (Cup Anr.) ..	109	44	—	—	—	24	17	42	99	10	0	23	15	24	12	—	—	—	—
Southport	80	62	48	—	—	24	12	51	101	4	0	45	13	24	12	20	24	6	35
Holyhead	60	40	‡	—	—	24, 25	29	99	39	1	0	67	16	24	6	21	24	9	50
8. ENGLAND, S.W. Pendennis Castle§ ..	256	65	24	—	—	24, 25	12	77	44	19	16	360	14	24	23	18	24	22	30
Plymouth	185	88	2	—	—	—	—	35	118	15	0	—	8	23	12	13	23	16	10
Lyme Regis	556	61	‡	—	—	—	—	31	68	54	15	—	9	25	18	13	25	2	15
10. IRELAND, S. Kingstown (Cup Anr.) ..	49	27	—	—	—	20, 24, 25	29	78	51	10	0	360	17	24	3	—	—	—	—
Quilty	100	40	‡	—	—	20, 23, 24	31	98	36	3	0	—	14	23	17	20	23	15	45
Cahirciveen (Val. Obs.)	98	41	‡	—	—	23, 24	20	122	24	2	0	15	13	24	15	22	24	14	15
Weaver Pt.	160	30	‡	—	—	23 to 25	28	89	48	3	0	—	16	24	14	23	24	13	35
11. ENGLAND CHANNEL Scilly	150	32	‡	24	1	24, 25	19	63	83	2	0	337	18	24	13	27	24	12	40

† More exactly the ranges adopted for this classification are > 17·2, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory
* Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FORTY-THIRD WEEK of 1919—October 19th to October 25th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			Mean Pressure at M.S.L.
	At any "D.-V." Station.		Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	Highest	Lowest	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.								
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr	hr.	%	mb.
0. SCOTLAND, NORTH ...	63	29	84·4	79·4	81·8	+ 2·0	55	+ 25	0	−11	4	− 1	0·71	18	− 10	2·2	−0·7	23	1022
Eastern.																			
1. SCOTLAND, EAST ...	66	30	85·1	78·9	81·9	+ 2·2	42	+ 12	0	−15	4	0	0·80	20	+ 2	2·2	−0·4	23	1023
2. ENGLAND, N.E.	64	33	85·6	77·7	81·5	+ 0·5	44	+ 7	4	− 3	3	− 1	0·87	22	+ 4	3·1	+0·5	32	1025
3. ENGLAND, EAST ...	62	26	86·3	76·2	81·1	− 0·3	50	+ 6	12	+ 5	2	− 2	0·09	2	− 14	3·8	+0·9	38	1026
4. MIDLAND COUNTIES ...	64	29	86·1	76·8	81·3	+ 0·5	48	+ 10	9	− 1	2	− 2	1·37	35	+ 18	3·1	+0·6	31	1025
5. ENGLAND, S.E.	62	26	86·8	77·1	81·8	− 0·4	52	+ 1	8	+ 3	2	− 2	0·32	8	− 14	4·0	+1·0	40	1026
Western.																			
6. SCOTLAND, WEST ...	61	26	85·1	80·2	82·5	+ 2·0	50	+ 14	0	− 9	4	0	1·20	31	+ 5	1·5	−1·0	15	1025
7. ENGLAND, N.W.	64	30	85·8	79·6	82·5	+ 1·3	50	+ 10	0	− 5	3	− 1	1·30	33	+ 10	2·4	−0·2	24	1024
8. ENGLAND, S.W.	64	30	86·6	80·2	83·3	+ 1·1	60	+ 10	0	− 4	2	− 3	1·20	30	+ 3	2·5	−0·4	25	1024
9. IRELAND, NORTH ...	63	31	86·6	81·4	83·9	+ 3·0	68	+ 29	0	− 8	4	0	0·63	16	− 6	2·7	−0·2	27	1023
10. IRELAND, SOUTH ...	66	31	86·6	82·1	84·3	+ 2·7	72	+ 26	0	− 6	4	0	0·66	17	− 7	2·5	−0·5	25	1024
11. ENGLISH CHANNEL ...	64	41	87·3	82·0	84·6	+ 0·3	76	+ 4	0	0	3	− 2	0·46	12	− 16	3·3	−0·1	33	1024

THE SEASON (Autumn).—Aggregates, &c., for the Period of 8 Weeks, August 31st to October 25th, 1919.

0. SCOTLAND, NORTH ...	71	29	85·6	79·5	82·4	− 0·2	423	− 15	14	− 13	40	+ 2	8·53	216	+ 16	3·4	+0·4	30	1014
Eastern.																			
1. SCOTLAND, EAST ...	75	24	86·7	78·8	82·6	− 0·1	454	− 10	29	− 6	31	+ 1	4·40	112	− 13	4·1	+0·6	35	1015
2. ENGLAND, N.E.	85	27	88·1	79·3	83·6	− 0·3	551	− 3	31	+ 18	25	− 3	3·04	78	− 30	4·6	+0·7	40	1017
3. ENGLAND, EAST ...	88	25	88·8	79·4	83·9	− 0·8	602	− 32	57	+ 42	19	− 8	1·70	44	− 60	5·2	+1·0	45	1018
4. MIDLAND COUNTIES ...	90	26	88·4	78·7	83·4	− 0·6	570	− 5	55	+ 29	20	− 7	3·45	88	− 22	4·7	+1·0	40	1019
5. ENGLAND, S.E.	85	25	89·3	80·0	84·5	− 0·8	660	− 28	43	+ 31	16	−11	1·99	51	− 75	5·4	+0·9	47	1019
Western.																			
6. SCOTLAND, WEST ...	73	26	86·8	80·0	83·3	− 0·1	501	− 17	14	− 5	32	+ 2	6·44	165	− 23	3·9	+0·4	34	1017
7. ENGLAND, N.W.	84	26	87·5	80·5	83·8	− 0·4	547	− 34	9	0	26	− 4	4·91	124	− 27	4·4	+0·7	38	1018
8. ENGLAND, S.W.	86	27	88·5	80·7	84·5	− 0·5	618	− 35	14	+ 6	24	− 7	3·73	94	− 73	4·9	+0·8	42	1019
9. IRELAND, NORTH ...	75	30	87·8	80·6	84·0	+ 0·2	563	+ 18	11	− 2	36	+ 2	5·22	132	− 20	3·6	+0·2	31	1017
10. IRELAND, SOUTH ...	75	30	88·4	81·6	84·9	+ 0·4	644	+ 29	3	− 8	31	0	3·92	100	− 55	4·2	+0·3	37	1020
11. ENGLISH CHANNEL ...	83	38	89·7	83·6	86·5	− 0·2	805	− 18	0	0	22	−10	3·62	91	− 60	5·7	+0·6	49	1020

THE YEAR 1919.—Aggregates, &c., for the Period of 43 Weeks, December 29th, 1918, to October 25th, 1919.

0. SCOTLAND, NORTH ...	78	11	83·8	77·6	80·6	− 0·5	1812	−168	694	+ 128	187	−12	34·53	879	−113	3·9	+0·4	28	1012
Eastern.																			
1. SCOTLAND, EAST ...	78	5	84·7	77·0	80·7	− 0·7	2018	−184	816	+ 164	153	−15	20·66	530	− 96	4·3	+0·2	33	1012
2. ENGLAND, N.E.	85	11	85·8	78·3	81·9	− 0·4	2432	− 99	609	+ 124	151	− 1	19·64	500	− 10	4·3	−0·2	33	1013
3. ENGLAND, EAST ...	88	10	86·5	78·4	82·3	− 0·6	2669	−239	637	+ 128	137	−10	18·70	479	− 4	4·7	−0·2	36	1015
4. MIDLAND COUNTIES ...	90	9	86·5	78·1	82·2	− 0·5	2675	−136	683	+ 135	136	−10	23·00	585	+ 46	4·4	+0·1	34	1015
5. ENGLAND, S.E.	86	16	87·1	79·1	82·9	− 0·6	2922	−177	494	+ 103	132	−11	21·23	537	+ 2	4·9	−0·2	38	1015
Western.																			
6. SCOTLAND, WEST ...	83	14	85·3	78·3	81·6	− 0·6	2234	−187	553	+ 118	165	−10	30·53	777	−141	4·5	+0·3	35	1014
7. ENGLAND, N.W.	84	16	85·6	79·0	82·2	− 0·5	2458	−185	503	+ 112	148	−12	24·33	618	− 83	4·4	0·0	34	1014
8. ENGLAND, S.W.	86	15	86·5	79·5	82·8	− 0·5	2750	−173	423	+ 114	148	−12	28·13	714	− 39	5·0	+0·2	39	1015
9. IRELAND, NORTH ...	78	22	85·6	79·0	82·1	− 0·4	2381	−136	448	+ 95	185	− 8	26·20	660	−103	4·1	+0·2	32	1013
10. IRELAND, SOUTH ...	80	22	86·7	79·8	83·1	− 0·3	2795	−100	365	+ 94	173	+ 2	25·45	648	−144	4·4	0·0	34	1015
11. ENGLISH CHANNEL ...	85	26	87·2	81·7	84·3	− 0·3	3249	−164	137	+ 32	148	−17	28·80	728	+106	5·5	−0·3	43	1016
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: October 31st, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 44.

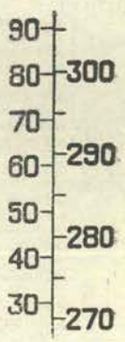
THE FORTY-FOURTH WEEK OF 1919.

SUNDAY, OCTOBER 26TH, TO SATURDAY, NOVEMBER 1ST, 1919.

Price 6d. Net, Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d. Net.

I.—GENERAL SUMMARY. [First published in 1878.]

The weather conditions during this week were very abnormal. The prevailing winds were from northerly quarters, as a depression moved southwards down the North Sea, whilst barometric pressure was persistently high to the westward and northward of the British Isles. The wind frequently rose to gale force on the northern coasts during the earlier part of the week, and over the Straits of Dover there was a severe storm on the Saturday night when the depression had reached the north of France; newspapers report great damage to shipping. Over the western Districts there was but little rain, while bright sunshine was very abundant, but in the northern and eastern parts of England there was precipitation on 6 or 7 days, rain, hail, sleet or snow, with frequent thunder and lightning, and only about the normal amount of sunshine. The week opened with a fairly warm day on which the highest maximum temperatures were registered at most of the English and Irish stations, the thermometer rising to about 285 a. at isolated places in the southern and south-western Districts; in Scotland the highest readings were about 283 a., mostly on the 26th or 30th. The lowest of the minima occurred on various dates; no very low screen readings were reported over Great Britain, but over Central Ireland the thermometer went down to 268 a. at Markree Castle on the 29th and at Birr Castle on the 30th; on the grass readings of 264 a. were registered at Ford (Argyll) and 265 a. or 266 a. at several inland stations in England and Ireland. Rainfall was in excess of the normal in Scotland E., England N.E. and England E.; over England N.E., where the normal is only 15mm. the divergence was 37mm. At Alnwick Castle the total for the two days 27–28 was 45mm., at Durham 35mm., and at Rounton the aggregate for the three days 27–29 was 72mm., while at West Witton on the 29th 54mm. fell. At Cahirciveen and Weymouth bright sunshine averaged 6 hours per day, slightly smaller daily means being reported from several other western stations. Aurora borealis was witnessed over the greater part of Scotland on the 26th; solar halos were observed at Stonyhurst on the 27th, and at Tenbury on the 29th and 30th, and there was a lunar halo at Oxford on the 30th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E.† Shoeburyness.		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	1	2·9	0	—	—	—	0	—	0	—	—	—	0	—	1	0·1
North	25	7·5	24	5·3	—	—	27	3·8	26	8·0	—	—	24	5·6	17	2·1
West	12	6·5	10	4·0	—	—	15	2·9	4	3·1	—	—	14	6·1	1	0·5
East	14	2·8	13	3·6	—	—	11	2·0	23	6·4	—	—	12	5·2	16	3·0
Calm	1	—	2	—	—	—	1	—	0	—	—	—	0	—	10	—

* For Deerness the week ends at midnight on Friday. † Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Deficient	Very deficient	Very deficient	Deficient	Deficient	Very deficient	Deficient	Very deficient	Very deficient
	Rainfall ...	Light	Heavy	Very heavy	Heavy	Moderate	Light	Very light	Very light	Light	Very light	Very light	Light
	Sunshine ...	Very abundant	Moderate	Moderate	Moderate	Abundant	Moderate	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Abundant

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

AUTUMN. 9 weeks from August 31st, 1919.	Warmth ...	2, 3, 4	3, 3, 3	2, 4, 3	2, 3, 4	2, 4, 3	2, 2, 5	4, 1, 4	3, 2, 4	2, 2, 5	4, 1, 4	4, 2, 3	2, 3, 4
	Rainfall ...	2, 4, 3	2, 5, 2	3, 3, 3	1, 3, 5	1, 5, 3	0, 3, 6	1, 4, 4	1, 3, 5	0, 3, 6	0, 5, 4	1, 3, 5	1, 2, 6
	Sunshine ...	5, 3, 1	5, 4, 0	5, 3, 1	3, 6, 0	5, 3, 1	5, 3, 1	6, 1, 2	7, 2, 0	5, 2, 2	5, 2, 2	4, 5, 0	5, 3, 1

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{5}{9}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(25906—19) Wt 162—833/512 625. 11/19 H. St. G. 17/ 36

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft Mean.	Earth 4 ft Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																						
a, Islands .. a Lerwick ..	54	46	31st	34	26, 27	44·6	36·7	40·5	- 3·8	5	0·76	19	- 6									
a Houton Bay, Orkney	520	—	—	—	—	—	—	—	—	—	—	—	—	Houton Bay ..	—	—	•	•	•	•	•	•
a Stornoway	51	49	30th	34	28th	45·9	36·3	41·0	- 3·6	5	0·35	9	- 25	Stornoway ..	3·5	+ 1·5	39	•	•	•	•	•
a Castlebay, Barra I. ..	37	49	30, 1	38	28th	46·9	40·7	43·7	—	2	0·12	3	—	Castlebay ..	5·5	—	61	•	•	•	•	•
b, Mainland. a Wick	81	47	30, 1	34	26, 29	45·6	37·9	41·6	- 2·5	6	0·99	25	+ 6									
a Strathpeffer	125	46	30th	31	29th	43·6	35·6	39·5	- 4·1	4	0·53	13	- 4									
p Glencarron	500	—	—	—	—	—	—	—	—	—	—	—	—									
a Fort Augustus.. ..	68	—	—	—	—	—	—	—	—	—	—	—	—									
p Fort William	171	48	30th	33	28th	45·1	35·4	40·1	- 4·8	0	0·00	0	- 47									
1. SCOTLAND, E.																						
a Nairn	82	48	30th	34	26, 28, 29	45·0	36·4	40·6	- 2·9	6	1·38	35	+ 19	Nairn	1·9	—	21	•	•	•	•	•
p Gordon Castle	101	47	29, 30	30	29th	45·0	36·3	40·5	- 4·1	7	1·01	26	+ 6	Gordon Castle..	0·8	—	9	•	•	•	•	•
a Aberdeen	46	49	30th	35	28, 29	46·0	38·0	41·9	- 2·7	7	1·06	27	+ 7	Aberdeen ..	2·6	+ 0·4	29	0	31	•	•	47·4	-1·1
a Balmoral	930	43	30th	29	28th	40·6	32·9	36·6	- 4·3	7	1·39	35	+ 11	Balmoral ..	•	•	•	2	27	•	•	•	•
p Crieff	432	47	26th	33	26, 29	45·4	35·3	40·2	- 3·8	1	0·04	1	- 27	Crathes	1·7	- 0·4	19	1	26	42·6	-3·0	47·5	-1·3
a Dundee	244	48	26th	32	28th	45·3	34·9	40·0	- 4·0	7	0·52	13	- 4	Dundee	4·1	—	45	3	29	41·9	•	•	•
a Leith	30	48	26th	36	26, 27	46·0	38·6	42·2	- 3·7	5	1·00	25	+ 11	Leith	•	•	•	1	29	•	•	•	•
p Edinburgh	441	46	26th	33	28th	43·7	37·1	40·3	- 4·5	5	0·92	23	+ 7	Edinburgh ..	1·7	- 0·6	19	1	30	•	•	•	•
a West Linton	789	46	26th	30	26th	43·0	33·4	38·1	- 2·8	5	0·97	25	—	West Linton ..	2·7	—	30	5	22	•	•	•	•
p Marchmont	498	47	26th	33	27th	45·1	35·1	40·0	- 3·5	6	1·08	27	+ 4	Marchmont .	2·5	+ 0·5	27	•	•	•	•	•	•
6. a, SCOTLAND, W.																						
a Ford (Argyll)	149	50	30th	26	28th	47·1	31·6	39·1	—	1	0·01	0·3	—	Ford (Argyll) ..	•	•	•	7	16	44·2	—	50·2	—
p Glasgow Observatory	180	47	26, 29, 31	34	28th	46·0	37·4	41·6	- 3·6	1	0·02	1	- 21	Glasgow.. ..	5·0	+ 3·5	55	5	20	•	•	•	•
p Rothesay	200	47	29, 31, 1	34	28th	45·9	37·3	41·5	- 4·5	2	0·04	1	- 29	Rothesay ..	4·9	—	54	3	27	42·4	—	48·9	-0·5
a Kilmarnock	90	48	26, 30, 31	27	29th	47·0	33·1	39·8	- 4·6	0	0·00	0	- 23	Kilmarnock ..	4·7	—	52	•	•	43·0	—	49·3	—
a Colmonell	170	50	30th	31	28, 29	48·0	35·7	41·7	- 4·2	0	0·00	0	- 30	Colmonell ..	•	•	•	4	26	•	•	•	•
p Cally, Gatehouse ..	120	49	30, 1	30	28, 1	47·3	34·1	40·5	- 4·3	0	0·00	0	- 31	Dumfries ..	3·9	—	42	6	22	43·2	-2·5	48·9	-1·4
p Dumfries	160	49	30th	31	28th	46·0	35·0	40·3	- 4·9	0	0·00	0	- 23	Eskdalemuir ..	4·0	—	44	4	23	•	•	•	•
a Eskdalemuir	794	45	30th	30	26th	43·1	32·7	37·8	—	5	0·33	8	—									
b, I. OF MAN p Douglas	277	50	30th	35	28th	47·1	38·9	42·9	- 4·3	3	0·06	2	- 28	Douglas	5·9	+ 3·2	63	1	29	•	•	•	•
2. ENGLAND, N.E																						
a Alnwick Castle ..	210	48	30th	33	29th	45·7	37·1	41·3	- 3·9	7	2·76	70	+ 50									
a Tynemouth	118	48	29, 30	34	28, 29	46·9	38·1	42·4	- 3·6	7	2·48	63	+ 49	Cockle Park ..	3·0	+ 0·6	32	3	28	40·7	-3·2	46·4	-1·5
a Durham	336	48	31st	32	26, 28	44·4	35·3	39·7	- 5·1	7	2·90	74	+ 59	Durham ..	2·3	+ 0·2	25	3	21	•	•	•	•
a North .. p Rounton	249	47	30th	31	26th	43·9	34·9	39·3	- 5·4	7	3·54	90	+ 76	Rounton ..	•	•	•	3	20	43·8	•	•	•
a West Witton	605	48	27th	33	28, 29	43·9	35·4	39·5	—	6	3·10	79	—	West Witton ..	•	•	•	5	28	42·0	—	46·5	—
p Scarborough	100	—	—	—	—	—	—	—	—	6	1·08	27	+ 11	Scarborough† ..	2·2	+ 0·1	24	•	•	•	•	—	—
p York	56	49	26th	32	26th	45·6	36·6	41·0	- 4·9	7	1·81	46	+ 33	York	1·7	- 0·1	18	—	—	45·6	-2·9	49·6	-2·1
b, South .. a Spurn Head	26	49	30th	35	29th	46·6	38·4	42·4	- 5·1	7	2·13	54	+ 42	Spurn Head ..	•	•	•	•	•	•	•	•	•
a Lincoln	58	49	26, 30	34	26th	45·7	36·7	41·1	- 4·6	7	1·03	26	+ 14	Lincoln	•	•	•	0	32	44·0	-2·7	49 1	-2·9
a Fulbeck	180	49	26th	30	26th	45·9	34·7	40·1	- 5·8	7	0·71	18	+ 6	Fulbeck ..	2·9	+ 0·6	31	•	•	—	—	—	—
														Skegness ..	3·7	+ 1·1	39	•	•	•	•	•	•
3. ENGLAND, E.																						
p Cromer	196	48	29th	32	1st	46·6	35·3	40·8	- 6·9	7	0·54	14	- 1	Cromer	2·1	- 0·5	22	•	•	•	•	•	•
a Little Massingham ..	280	47	26, 29	31	30th	44·9	34·1	39·3	- 6·8	7	2·61	66	+ 48	Lit. Massingham	2·5	+ 0·1	27	•	•	•	•	•	•
a Yarmouth	13	49	26th	35	29th	46·6	38·6	42·5	- 5·1	7	1·79	45	+ 28	Yarmouth ..	2·3	—	24	0	33	46·4	-1·7	50·6	-2·4
a Norwich	93	48	26, 29	32	1st	46·4	35·9	41·0	- 5·7	7	2·05	52	+ 34	Norwich ..	2·4	—	26	3	25	42·3	•	•	•
a Geldeston	37	52	26th	32	29th	47·6	36·1	41·7	- 5·6	7	1·34	34	+ 17	Geldeston ..	2·8	+ 0·1	30	•	•	•	•	•	•
p Cambridge	41	51	26th	30	28th	47·3	35·4	41·2	- 5·4	5	0·33	8	- 6	Cambridge ..	2·5	- 0·1	26	3	26	46·3	-2·0	50·7	-2·3
a Clacton-on-Sea ..	54	50	26th	35	29, 1	46·0	37·4	41·6	- 6·2	6	0·71	18	+ 6	Clacton	2·7	+ 0·3	28	0	31	46·0	-4·7	51·9	-2·0
a Rothamsted	424	47	26th	32	1st	44·3	34·4	39·2	- 6·9	5	0·39	10	- 8	Rothamsted ..	2·9	+ 0·3	30	7	27	43·3	•	•	•
p Tottenham	51	50	26th	34	1st	46·4	37·4	41·8	—	2	0·11	3	—	Tottenham ..	1·7	—	18	0	32	•	•	51·0	-3·4
														S'thend-on-Sea	3·0	—	31	1	30	47·6	—	—	—
4. MIDLAND COUNTIES.																						
a North .. a Harrogate	479	45	26, 30, 31	32	28th	43·6	35·4	39·4	- 5·1	7	1·07	27	+ 8	Harrogate ..	3·7	+ 1·4	40	1	29	43·9	-2·9	47·4	-1·5
p Sheffield	429	47	26th	35	28, 1	44·4	37·1	40·6	—	5	1·54	39	—	Sheffield.. ..	2·0	- 0·1	21	3	28	44·1	-2·9	49·2	-1·6
p Buxton	987	43	26, 30	30	26th	41·4	33·7	37·4	—	5	0·86	22	- 9	Buxton	2·0	—	21	4	28	40·8	-4·2	47·9	-2·2
b, East .. a Bawtry	65	47	29th	34	1st	44·4	36·9	40·5	- 4·8	6	1·14	29	+ 15	Worksop ..	2·6	+ 0·6	28	6	22	44·0	—	48·0	—
a Nottingham	82	49	26th	33	26th	46·0	36·6	41·2	- 4·4	6	0·92	23	+ 9	Nottingham ..	2·5	+ 0·6	27	3	25	41·4	-4·7	47·6	-3·4
p Birmingham, Edgbn.	535	48	26th	33	29th	44·4	35·4	39·8	- 6·0	4	0·52	13	- 3	Birmingham ..	2·5	+ 0·8	27	5	27	42·7	-4·1	49·1	-1·6
a Raunds	203	49	26th	31	26th	45·9	33·7	39·6	- 5·9	5	0·46	12	- 3	Raunds	3·1	—	32	4	23	45·4	—	50·8	—
p Oxford	208	49	26, 30	34	26, 29, 1	46·4	34·9	40·5	- 6·0	3	0·13	3	- 13	Oxford	3·6	+ 1·1	38	7	27	•	•	•	•
														Malvern ..	4·1	—	43	5	27	44·0	—	50·3	•
c, West .. a Cheadle (N. Staffs.) ..	646	47	26th	30	28th	44·3	34·1	39·1	- 5·5	2	0·49	12	- 7	Cheadle	•	•	•	3	27	•	•	•	•
p Tenbury	313	49	26th	28	26th	46·0	32·4	39·0	- 6·6	2	0·24	6	- 9	Tenbury	•	•	•	7	24	43·3	—	—	—
p Ross-on-Wye	201	51	26th	30	29th	46·6	33·9	40·1	- 6·1	2	0·13	3	- 14	Ross-on-Wye ..	4·1	—	43	7	22	—	—	—	—
a Clifton	226	49	26th	34	26, 28, 29	45·6	36·1	40·7	- 6·8	3	0·07	2	- 24	Clifton	4·2	—	44	2	30	•	•	•	•
5. ENGLAND, S.E.																						
a Marlborough	424	49	26th	29	26, 29	45·3	31·3	38·1	- 7·5	3	0·15	4	- 19	Worthing ..	4·6	+ 1·4	48	2	29	45·5	-4·7	51·9	-2·5
p Salisbury (Wilton) ..	180	51	26th	30	29th	46·9	32·4	39·4	- 7·2	3	0·19	5	- 21	Marlborough ..	3·0	+ 0·7	31	7	22	43·8	—	50·9	—
a Wisley, Surrey ..	150	49	26th	31	1st	45·4	34·7	39·9	- 7·0	3	0·23	6	- 12	Salisbury	•	•	•	6	25	44·7	•	•	•
a Tunbridge Wells ..	354	49	26th	32	1st	44·9	35 9	40·3	- 7·2	4	0·42	11	- 14	Wisley	2·1	- 0·4	22	6	18	44·1	-4·2	49·5	-2·9
a Margate	51	49	26th	37	30th	46·3	39·9	43·0	- 6·2	3	0·97	25	+ 7	Tunbridge Wells	1·7	- 1·2	18	5	26	47·3	-0·8	51·6	—
														Margate	1·4	- 1·2	15	0	32	47·7	-1·5	53·1	0·9
a Dungeness	21	52	26th	34	27th	47·3	36·7	41·8	- 7·4	4	0·59	15	- 7	Folkestone ..	2·8	—	29	•	•	•	•	51·0	—
p St. Leonards	178	—	—	—	—	—	—	—	—	—	—	—	—	St. Leonards ..	—	—	—	—	—	—	—	—	—
p Southampton	64	51	26th	31	29th	46·9	34·9	40·7	- 8·3	3	0·14	4	- 21	Southampton ..	4·7	+ 1·9	49	5	25	•	•	•	•
a Ventnor	59	51	26th	34	29th	48·1	37·1	42·4	- 8·6	2	0·03	1	- 24	Ventnor	5·3	+ 2·1	55	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	49	26th	35	29, 1	45·8	37·3	41·4	- 6·1	3	0·19	5	- 12	Richmond ..	2·3	0·0	24	4	25	43·5	-4·7	49·8	-2·9
a Westminster	27	50	26th	35	29th	46·9	37·8	42·2	- 6·5	3	0·34	9	- 7	Westminster ..	1·8	+ 0·2	19	4	27	•	•	•	•
ag Greenwich	149	50	26th	34	1st	46·3	37·6	41·8	- 4·6	3	0·45	11	- 3	Greenwich ..	1·8	- 0·4	19	5	26	•	•	•	•
a Hampstead	450	48	26th	33	29, 1	44·7	35·1	39·8	—	3	0·25	6	—	Hampstead ..	2·7	—	28	7	24	•	•	•	•
ag Camden Square ..	110	51	26th	34	1st	47·1	37·0	41·9	- 6·2	3	0·32	8	- 9	Camden Square	2·0	+ 0·3	21	2	29	•	•	•	•
7. a, ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	46	30th	29	28th	43·6	34·0	38·7	- 6·4	5	0·13	3	- 22	Aspatria.. ..	2·6	+ 0·1	28	3	25	43·0	-3·2	48·7	-1·4
p Newton Rigg	559	47	30th	28	26th	44·7	33·7	39·0	- 4·8	4	0·29	7	- 15	Newton Rigg ..	3·4	+ 1·3	37	6	20	44·6	-2·0	48·8	-0·7
p Stonyhurst	375	47	30th	31	26th	45·1	36·3	40·6	- 4·7	2	0·39	10	- 18	Stonyhurst ..	4·4	+ 2·4	47	1	27	•	•	•	•
p Blackpool	66	51	26th	32	26th	47·9	36·9	42·2	- 4·3	2	0·14	4	- 18	Blackpool ..	5·1	+ 2·7	54	5	21	46·5	—	50·9	—
a Southport	37	48	31st	33	26th	46·3	36·9	41·5	- 5·0	2	0·13	3	- 17	Southport ..	4·1	+ 1·8	44	5	23	41·7	-4·1	48·5	-1·8
														Hoylake ..	4·0	+ 1·7	43	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	48	26th	36	1st	46·1	38·9	42·4	- 4·6	2	0·12	3	- 15	Liverpool ..	3·9	—	41	1	29	•	•	•	•
a Hawarden Bridge ..	22	49	26th	36	27, 28	47·4	38·3	42·7	- 4·8	1	0·06	2	- 14	Manchester (City)	1·4	+ 0·2	15	4	26	42·0	-5·2	50·0	-2·8
a Manchester (Whit. Pk.)	125	48	26th	32	26th	46·1	37·6	41·7	- 5·0	3	0·20	5	- 13	Whitworth Park	1·2	0·0	13	•	•	•	•	•	•
b, NORTH WALES.																						
p Llandudno	16	50	26th	40	26, 27	48·6	41·6	45·0	- 3·6	2	0·05	1	- 19	Llandudno ..	2·7	+ 0·1	29	•	•	•	•	•	•
a Holyhead .. .	15	51	26th	41	28, 29	48·4	43·0	45·6	- 3·3	3	0·17	4	- 21	Holyhead ..	4·5	—	48	0	37	•	•	•	•
a Beddgelert	309	—	—	—	—	—	—	—	—	—	—	—	—									
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—									

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average.
8. *a*, SOUTH WALES.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	°/₀		°F.	°F.	°F.	°F.	°F.
a Aberystwyth	59	49	26th	32	28th	47·4	36·1	41·6	—	0	0·00	0	—	Aberystwyth ..	4·8	+ 2·2	51	•	•	•	•	•	•
a Rhayader	757	47	26th	28	26th	43·7	33·0	38·2	—	6	0·31	8	—	Rhayader ..	3·5	—	36	6	18	•	•	•	•
a St. Ann's Head	149	51	26th	37	31st	48·1	39·6	43·7	- 5·9	4	0·44	11	- 16	St. Ann's Head	4·2	+ 1·7	44	•	•	•	•	•	•
p Cardiff	202	51	26th	32	29th	46·6	35·4	40·8	- 5·9	1	0·02	1	- 28	Cardiff	4·5	—	47	4	26	44·5	-3·8	51·2	-1·5
b, ENGLAND, S.W.																							
a Bath	66	51	26th	31	29th	47·4	33·3	40·1	- 6·8	2	0·15	4	- 16	Bath	•	•	•	•	•	45·6	-4·8	51·7	-3·2
a Shaftesbury	722	48	26th	29	29th	44·0	32·7	38·2	- 8·0	2	0·15	4	- 20	Shaftesbury ..	•	•	•	•	•	44·0	—	51·6	—
a Arlington	613	50	27th	33	26th	46·7	36·8	41·6	- 5·2	3	0·52	13	- 27										
a Newquay	190	51	26th	36	31st	48·6	40·3	44·3	- 5·9	4	0·28	7	- 18	Newquay ..	4·0	+ 1·1	42	•	•	48·5	—	54·2	—
a Cullompton	202	54	26th	29	29th	48·9	32·6	40·5	- 6·5	3	0·09	2	- 23	Cullompton ..	5·4	+ 3·1	56	5	24	46·2	•	•	•
a Portland Bill	19	51	26th	36	29, 30, 1	48·1	37·6	42·7	- 7·7	2	0·05	1	- 20	Weymouth ..	6·0	—	62	•	•	•	•	•	•
p Plymouth	116	51	26, 27	32	28, 29	49·1	35·9	42·3	- 7·5	3	0·07	2	- 23	Plymouth ..	4·9	+ 2·2	51	2	26	45·4	-5·2	52·8	—
a Falmouth	167	53	26th	33	29th	49·7	36·1	42·7	- 7·2	4	0·60	15	- 18	Falmouth ..	4·9	+ 2·0	51	4	26	48·9	—	55·0	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	50	30, 31	38	28, 29	48·7	41·4	44·9	- 2·3	1	0·04	1	- 19	Malin Head ..	4·9	—	54	•	•	•	•	•	•
{ *a* Blacksod Point ..	37	50	30th	34	29, 30	48·1	38·1	43·0	- 5·1	4	0·13	3	- 29	Markree Castle	5·5	+ 3·1	59	7	20	47·8	-0·7	52·9	+0·5
{ *p* Markree Castle ..	122	52	30th	23	29th	49·9	31·7	40·1	- 5·2	0	0·00	0	- 26										
b, East .. { *p* Armagh	196	49	26, 30	27	29th	47·3	33·4	40·1	- 5·3	1	0·04	1	- 16	Armagh	5·4	+ 2·9	58	7	19	45·5	-2·4	51·0	-0·5
{ *a* Donaghadee	39	51	30th	36	31st	48·3	41·7	44·9	- 2·0	0	0·00	0	- 19										
10. IRELAND, S.																							
p Dublin, City	47	51	30th	32	28th	47·9	38·3	43·0	- 4·8	3	0·22	6	- 19	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
a Birr Castle	175	50	30, 31	23	30th	48·1	29·7	38·6	- 6·8	0	0·00	0	- 18	Phœnix Park ..	5·0	+ 2·2	53	6	15	•	•	•	•
a Kilkenny	195	50	30th	29	29th	48·0	32·6	40·1	- 6·0	1	0·01	0·3	- 19	Dublin City ..	•	•	•	2	27	•	•	•	•
a Waterford	137	51	26th	30	28th	48·0	34·3	41·0	- 6·6	1	0·02	1	- 22	Birr Castle ..	5·8	+ 3·2	62	6	17	•	•	•	•
p Seskin, Carrick-on-Suir	535	48	26th	30	29th	45·3	34·4	39·7	—	2	0·02	1	—	Seskin	4·9	—	52	4	25	•	•	•	•
a Cahir	199	50	26, 27, 30	28	29, 31	48·7	33·7	41·0	- 5·2	0	0·00	0	—										
a Foynes	50	50	26th	33	29, 30	47·9	37·0	42·3	- 5·3	0	0·00	0	- 23										
a Cahirciveen (Val. Obs.)	30	52	26th	30	30, 31	49·0	35·3	42·0	- 7·6	0	0·00	0	- 33	Cahirciveen ..	6·0	+ 3·3	63	4	25	•	•	•	•
a Killarney	174	53	27th	26	30th	49·8	31·9	40·6	- 7·5	0	0·00	0	- 33	Ballinacurra ..	5·4	+ 2·9	56	•	•	•	•	•	•
a Roche's Point	32	52	30th	37	29, 30, 1	49·6	38·3	43·8	- 5·4	0	0·02	1	- 24										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	53	26th	41	29th	51·6	44·1	47·7	- 3·7	4	0·17	4	- 16	Scilly	4·6	+ 1·5	47	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	52	26, 27	37	31st	49·3	42·4	45·8	- 5·6	7	0·63	16	- 9	St. Heliers ..	3·5	+ 0·3	36	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	53	26th	37	29th	50·0	42·9	46·4	- 5·0	6	0·89	23	- 3	Guernsey† ..	3·8	+ 0·7	39	1	30	49·8	-2·7	55·0	-1·1

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, November 1st, 1919.

DISTRICT AND STATION	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
0. SCOTLAND, N.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m./s.	d.	h.	m.
Deerness (Cup Anr.)** ..	188	16	5	26	3	25 to 28	52	63	48	2	0	315	19	26	11	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	31	109	28	0	337	8	26	14	24	26	15	30
Aberdeen	153	105	52	—	—	26	11	73	44	40	0	293	14	26	13	26	26	13	35
Edinburgh	485	39	31	—	—	26	2	111	48	7	0	315	12	26	14	21	26	16	50
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	26 to 30	42	75	36	15	0	{ 340	15	27	5	21	26	22	55
												{ 350	15	27	6	21	27	4	55
Paisley	188	81	15	—	—	26	3	34	117	14	0	315	11	26	15	23	26	14	15
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	27	6	65	70	24	3	326	12	27	5	27	27	6	10
South Shields	72	61	12	—	—	26 to 30	38	95	34	1	0	67	15	29	12	24	27	6	50
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Gorleston	52	42	‡	29	2	27, 29, 30, 1	24	118	17	3	4	—	19	29	16	23	29	15	40
Shoeburyness	103	90	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4. MIDLAND COUNTIES																			
Benson	270	84	‡	—	—	29	1	54	100	13	0	23	11	29	20	18	29	19	50
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	27	7	57	101	3	0	—	12	27	13	21	27	11	15
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument out of adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	37	127	4	0	23	10	29	20	19	27	9	20
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	16	80	72	0	326	9	27	14	14	27	12	35
Fleetwood (Cup Anr.) ..	109	44	—	26	3	26 to 29	46	76	38	5	0	326	20	26	17	—	—	—	—
Southport	80	62	48	26	1	26, 27, 29	34	86	45	2	0	337	17	26	24	23	27	0	55
Holyhead	60	40	‡	—	—	26 to 30, 1	85	77	6	0	0	45	16	29	19	21	26	18	20
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	27, 29	5	120	40	3	0	337	11	29	18	20	29	13	5
Plymouth	185	88	2	—	—	—	—	28	118	22	0	—	9	29	14	17	29	13	35
Lyme Regis	556	61	‡	—	—	27, 29	6	85	75	2	0	—	13	27	14	19	27	12	40
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	26, 27, 29, 30	19	140	9	0	0	34	13	30	11	—	—	—	—
Quilty	100	40	‡‡‡	—	—	—	—	28	98	10	32	—	8	27	6	12	27	6	30
Cahirciveen (Val. Obs.)	98	41	‡	—	—	—	—	29	99	49	0	55	8	1	11	12	1	11	10
Weaver Pt.	160	30	‡	—	—	—	—	124	35	0	9	—	10	31	13	15	31	13	50
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	27, 29, 30	7	102	58	1	0	337	12	29	23	16	30	1	35

† More exactly the ranges adopted for this classification are > 17·2, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting.
§ Direction from the Robinson Anemometer at Falmouth Observatory
* Above tops of trees.
** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FORTY-FOURTH WEEK of 1919—October 26th to November 1st, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr	hr.	%	mb.
0. SCOTLAND, NORTH ...	49	31	80·2	75·4	77·7	− 2·0	9	− 18	20	+ 9	4	− 1	0·53	13	− 20	3·5	+1·5	39	1029
Eastern.																			
1. SCOTLAND, EAST ...	49	29	79·9	75·1	77·4	− 2·2	7	− 21	22	+ 8	6	+ 1	0·99	25	+ 3	2·4	+0·4	27	1027
2. ENGLAND, N.E.	49	30	80·6	75·4	77·9	− 2·9	10	− 26	21	+14	7	+ 3	2·05	52	+ 37	2·6	+0·4	28	1020
3. ENGLAND, EAST ...	52	30	80·9	75·3	78·0	− 3·3	12	− 30	23	+17	6	+ 2	1·10	28	+ 12	2·4	+0·2	25	1016
4. MIDLAND COUNTIES ...	51	28	80·4	74·6	77·4	− 3·2	9	− 29	26	+17	4	0	0·52	13	− 5	3·2	+0·9	34	1020
5. ENGLAND, S.E.	52	29	80·9	75·0	77·9	− 4·2	12	− 37	24	+21	3	− 1	0·32	8	− 15	3·1	+0·3	32	1018
Western.																			
6. SCOTLAND, WEST ...	50	26	81·2	74·9	77·9	− 2·8	13	− 21	25	+17	1	− 4	0·02	1	− 31	5·5	+3·3	59	1026
7. ENGLAND, N.W.	51	28	80·9	76·2	78·5	− 2·7	12	− 26	17	+12	3	− 2	0·17	4	− 20	3.6	+1·5	39	1024
8. ENGLAND, S.W.	54	28	81·4	74·8	78·1	− 3·9	15	− 32	26	+23	3	− 2	0·24	6	− 23	4·5	+2·0	47	1022
9. IRELAND, NORTH ...	52	23	82·1	75·2	78·5	− 2·4	18	− 19	24	+19	1	− 4	0·04	1	− 23	5·5	+3·0	59	1028
10. IRELAND, SOUTH ...	53	23	82·2	74·4	78·2	− 3·5	18	− 27	29	+25	1	− 4	0·03	1	− 23	5·6	+2·9	58	1028
11. ENGLISH CHANNEL ...	53	37	83·2	79·2	81·1	− 2·8	32	− 36	0	0	6	+ 1	0·56	14	− 10	4·0	+0·9	41	1021

THE SEASON (Autumn).—Aggregates, &c., for the Period of 9 Weeks, August 31st to November 1st, 1919.

0. SCOTLAND, NORTH ...	71	29	85·0	79·0	81·9	− 0·3	432	− 33	34	− 4	44	+ 1	9·06	229	− 4	3·4	+0·5	31	1015
Eastern.																			
1. SCOTLAND, EAST ...	75	24	86·0	78·4	82·0	− 0·4	461	− 31	51	+ 2	37	+ 2	5·39	137	− 10	3·9	+0·6	34	1016
2. ENGLAND, N.E.	85	27	87·3	78·9	82·9	− 0·7	561	− 29	52	+ 32	32	0	5·15	132	+ 9	4·4	+0·7	39	1017
3. ENGLAND, EAST ...	88	25	88·0	78·9	83·3	− 1·0	614	− 62	80	+ 59	25	− 6	2·80	72	− 48	4·9	+0·8	43	1018
4. MIDLAND COUNTIES ...	90	26	87·5	78·3	82·7	− 0·9	579	− 34	81	+ 46	24	− 7	3·97	101	− 27	4·5	+1·0	40	1019
5. ENGLAND, S.E.	85	25	88·3	79·4	83·7	− 1·2	672	− 65	67	+ 52	19	−12	2·31	59	− 90	5·2	+0·9	45	1019
Western.																			
6. SCOTLAND, WEST ...	73	26	86·2	79·5	82·7	− 0·4	514	− 38	39	+ 12	33	− 2	6·46	166	− 54	4·1	+0·8	36	1018
7. ENGLAND, N.W.	84	26	86·8	80·0	83·2	− 0·7	559	− 60	26	+ 12	29	− 6	5·08	128	− 47	4·3	+0·8	38	1019
8. ENGLAND, S.W.	86	27	87·7	80·1	83·7	− 0·9	633	− 67	40	+ 29	27	− 9	3·97	100	− 96	4·8	+0·8	42	1019
9. IRELAND, NORTH ...	75	23	87·2	80·0	83·4	− 0·1	581	− 1	35	+ 17	37	− 2	5·26	133	− 43	3·8	+0·5	34	1018
10. IRELAND, SOUTH ...	75	23	87·7	80·8	84·2	0·0	662	+ 2	32	+ 17	32	− 4	3·95	101	− 78	4·4	+0·6	39	1020
11. ENGLISH CHANNEL ...	83	37	88·9	83·1	85·9	− 0·5	837	− 54	0	0	28	− 9	4·18	105	− 70	5·5	+0·6	48	1020

THE YEAR 1919.—Aggregates, &c., for the Period of 44 Weeks, December 29th, 1918, to November 1st, 1919.

0. SCOTLAND, NORTH ...	78	11	83·7	77·6	80·5	− 0·6	1821	−186	714	+ 137	191	−13	35·06	892	−133	3·7	+0·2	28	1012
Eastern.																			
1. SCOTLAND, EAST ...	78	5	84·6	77·0	80·6	− 0·7	2025	−205	838	+ 172	159	−14	21·65	555	− 93	4·2	+0·1	32	1013
2. ENGLAND, N.E.	85	11	85·7	78·2	81·8	− 0·5	2442	−125	630	+ 138	158	+ 2	21·75	554	+ 29	4·3	−0·1	33	1014
3. ENGLAND, EAST ...	88	10	86·4	78·3	82·2	− 0·7	2681	−269	660	+ 145	143	− 8	19·80	507	+ 8	4·7	−0·1	36	1015
4. MIDLAND COUNTIES ...	90	9	86·4	78·1	82·1	− 0·5	2684	−165	709	+ 152	140	−10	23·52	598	+ 41	4·3	0·0	34	1015
5. ENGLAND, S.E.	86	16	86·9	79·1	82·8	− 0·7	2934	−214	518	+ 124	135	−12	21·55	545	− 13	4·8	−0·2	38	1015
Western.																			
6. SCOTLAND, WEST ...	83	14	85·2	78·2	81·6	− 0·5	2247	−208	578	+ 135	166	−14	30·55	778	−172	4·6	+0·4	35	1014
7. ENGLAND, N.W.	84	16	85·5	79·0	82·1	− 0·6	2470	−211	520	+ 124	151	−14	24·50	622	−103	4·4	+0·1	34	1014
8. ENGLAND, S.W.	86	15	86·4	79·3	82·7	− 0·6	2765	−205	449	+ 137	151	−14	28·37	720	− 62	5·0	+0·2	39	1015
9. IRELAND, NORTH ...	78	22	85·5	78·9	82·1	− 0·4	2399	−155	472	+ 114	186	−12	26·24	661	−126	4·1	+0·2	32	1014
10. IRELAND, SOUTH ...	80	22	86·6	79·7	83·0	− 0·3	2813	−127	394	+ 119	174	− 2	25·48	649	−167	4·4	0·0	35	1016
11. ENGLISH CHANNEL ...	85	26	87·1	81·6	84·2	− 0·4	3281	−200	137	+ 32	154	−16	29·36	742	+ 96	5·5	−0·2	43	1016
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: November 7th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 45.

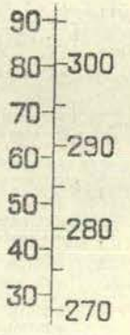
THE FORTY-FIFTH WEEK OF 1919.

SUNDAY, NOVEMBER 2ND, TO SATURDAY, NOVEMBER 8TH, 1919.

Price 6d. Net, Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d. Net.

I.—GENERAL SUMMARY. [First published in 1878.]

During the week barometric pressure was persistently high to the northward of the British Isles, while depressions from the southern Atlantic spread over the western continental countries and reached the adjacent parts of our Islands and the North Sea. Northerly to Easterly winds prevailed very generally, blowing freshly at times, especially on our east coasts. The week opened with a fair day in many parts of the country but from Tuesday to Friday overcast skies and showers of rain, snow and sleet were general. Thunder and lightning occurred in the north of Ireland on the 7th and 8th and at Guernsey on the 8th. Thick fog was reported at many western stations on Saturday. The mean temperature was everywhere below the normal, the deficit being greatest, about 4 a., in the southern districts, and smallest, about 2 a., in the north. The day temperatures were uniformly low, on the 3rd at many eastern and south-eastern stations the thermometer failed to exceed 275 a. Temperature fell to below the freezing point on at least one night during the week in all districts except the English Channel, the lowest point reached being 268 a. at Ford (Argyll), Cally (Kirkcudbright), Kilkenny and Killarney. On the grass the lowest readings were 263 a. at Ford, 265 a at Markree Castle, and 266 a. at Birmingham. Over eastern Britain the total rainfall exceeded the normal, and in Scotland, E. the excess was 18 mm. In other districts the fall was less than the normal, the deficit being more than 20mm. in Ireland, S., and England, S.W., while in Scotland, W. it was as much as 30mm. The amount of precipitation at Gordon Castle on the 7th was 21mm., and at Crathes, Kincardineshire, the total for the two days 7th and 8th was 52mm. On the morning of the 8th the ground at the latter place was covered with snow to the depth of 10cm. Bright sunshine was scanty in nearly all districts; at many stations in England, E. and England, S.E., the records were nil. A striking contrast is afforded by Cahirciveen (Valencia Obs.), where the daily mean was 6·6 hrs., more than double that at any other station. Solar halos were seen at Oxford on the 2nd and 3rd.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E.† Shoeburyness.		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	9	2·7	4	2·2	6	2·0	0	—	6	1·3	5	0·9	4	1·1	1	0·5
North	13	6·4	14	2·9	16	4·5	25	2·9	13	2·7	17	2·5	18	3·4	18	1·5
West	0	—	3	2·1	4	0·7	0	—	0	—	4	1·5	10	3·3	0	—
East	24	5·4	18	3·0	17	4·3	21	2·3	24	5·6	21	4·4	18	4·9	21	4·2
Calm	0	—	7	—	5	—	3	—	4	—	0	—	0	—	7	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.												
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Very deficient
	Rainfall ...	Moderate	Heavy	Heavy	Moderate	Light	Light	Very light	Very light	Light	Light	Very light	Moderate
	Sunshine ...	Scanty	Scanty	Scanty	Very scanty	Very scanty	Scanty	Scanty	Very scanty	Scanty	Scanty	Abundan	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

AUTUMN. 10 weeks from August 31st, 1919.	Warmth ...	2, 3, 5	3, 3, 4	2, 4, 4	2, 3, 5	2, 4, 4	2, 2, 6	4, 1, 5	3, 2, 5	2, 2, 6	4, 1, 5	4, 2, 4	2, 3, 5
	Rainfall ...	2, 5, 3	3, 5, 2	4, 3, 3	1, 4, 5	1, 5, 4	0, 3, 7	1, 4, 5	1, 3, 6	0, 3, 7	0, 5, 5	1, 3, 6	1, 3, 6
	Sunshine ...	5, 3, 2	5, 4, 1	5, 3, 2	3, 6, 1	5, 3, 2	5, 3, 2	6, 1, 3	7, 2, 1	5, 2, 3	5, 2, 3	5, 5, 0	5, 3, 2

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(26041—19) Wt 162—833/512 625. 11/19 H&St. G. 17/ 36

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880. GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperatur					
		Highest	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																							
a. Islands..																							
a Lerwick ..	54	45	2nd	33	3, 5	42·6	36·1	39·4	- 4·5	5	0·60	15	- 10										
p Deerness, Orkney	165	45	2, 3	33	7, 8	43·1	37·1	40·1	—	7	1·59	41	+ 17	Deerness ..	0·4	- 1·0	5	•	•	•	•	•	•
a Stornoway	51	46	2, 3	33	8th	43·6	36·3	40·0	- 4·1	6	1·46	37	+ 3	Stornoway ..	1·3	- 0·4	16	•	•	•	•	•	•
a Castlebay, Barra I. ..	37	48	3rd	35	8th	45·6	40·0	42·8	—	5	1·25	32	—	Castlebay ..	1·4	—	16	•	•	•	•	•	•
b. Mainland.																							
a Wick	81	46	2nd	32	8th	44·3	38·3	41·3	- 2·1	6	1·50	38	+ 19										
a Strathpeffer	125	42	3, 6	34	4, 7, 8	40·6	35·4	38·0	- 4·9	7	0·96	25	+ 8										
p Glencarron	500	—	—	—	—	—	—	—	—	—	—	—	—										
a Fort Augustus.. ..	68	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William ..	171	44	2, 3, 5	32	2, 7, 8	42·0	34·3	38·2	- 6·0	4	0·33	8	- 39										
1. SCOTLAND, E.																							
a Nairn	82	44	2nd	32	3, 4, 8	41·6	34·1	37·9	- 4·9	6	1·42	36	+ 21	Nairn	0·3	—	4	•	•	•	•	•	•
r Gordon Castle	101	46	2nd	31	7th	43·0	34·0	38·5	- 4·7	7	1·68	43	+ 24	Gordon Castle..	1·3	—	15	•	•	•	•	•	•
a Aberdeen	46	46	2, 3	33	7th	43·0	37·6	40·3	- 3·5	7	2·35	60	+ 41	Aberdeen ..	0·5	- 1·6	6	1	29	•	•	46·3	-1·1
a Balmoral	930	46	2nd	29	7, 8	39·4	31·6	35·5	- 4·6	7	2·48	63	+ 40	Balmoral ..	•	•	•	4	27	•	•	•	•
r Crieff	432	44	2nd	28	8th	40·7	33·4	37·1	- 6·0	6	0·97	25	- 2	Crathes	0·5	- 1·6	6	1	22	42·0	-1·7	46·3	-1·1
a Dundee	244	45	2nd	30	2, 8	41·7	33·3	37·5	- 5·5	7	2·05	52	+ 36	Dundee	0·8	—	9	3	24	40·6	•	•	•
a Leith	30	45	2, 3	32	8th	43·0	37·4	40·2	- 4·8	7	0·80	20	+ 7	Leith	•	•	•	1	30	•	•	•	•
p Edinburgh	441	43	2nd	30	8th	40·3	35·1	37·7	- 6·2	7	1·09	28	+ 13	Edinburgh ..	1·0	- 1·3	12	3	29	•	•	•	•
a West Linton	769	40	2, 3	29	8th	38·6	32·7	35·7	- 4·1	7	0·53	13	—	West Linton ..	0·7	—	8	4	26	•	•	•	•
p Marchmont	498	42	2nd	30	8th	40·0	33·4	36·7	- 5·9	6	1·59	40	+ 19	Marchmont ..	0·5	- 1·5	6	•	•	•	•	•	•
6. a. SCOTLAND, W.																							
a Ford (Argyll)	149	48	2nd	23	8th	43·7	31·6	37·7	—	3	0·15	4	—	Ford (Argyll) ..	•	•	•	4	14	41·5	—	48·2	—
p Glasgow Observatory	180	45	2nd	30	8th	41·9	35·9	38·9	- 5·2	6	0·21	5	- 18	Glasgow.. ..	1·0	0·0	12	3	20	•	•	•	•
p Rothesay	200	45	2nd	30	8th	42·3	35·9	39·1	- 5·9	5	0·34	9	- 22	Rothesay ..	1·7	—	20	2	25	41·6	—	47·1	-1·2
a Kilmarnock	90	46	2nd	27	8th	43·0	33·7	38·4	- 4·8	3	0·10	3	- 20	Kilmarnock ..	1·0	—	11	•	•	42·0	—	47·8	—
a Colmonell	170	48	2nd	24	8th	44·1	33·0	38·6	- 6·2	1	0·03	1	- 30	Colmonell ..	•	•	•	3	21	•	•	•	•
p Cally, Gatehouse ..	120	49	2nd	23	8th	43·1	33·9	38·5	- 5·2	2	0·05	1	- 31	Dumfries ..	0·2	—	2	3	22	41·9	-1·9	46·9	-1·3
p Dumfries	160	48	6th	27	8th	42·9	34·3	38·6	- 5·3	2	0·22	6	- 16	Eskdalemuir ..	0·8	—	9	3	23	•	•	•	•
a Eskdalemuir	794	42	2nd	24	8th	39·3	31·7	35·5	—	7	0·33	8	—										
b. I. OF MAN p Douglas	277	46	2nd	34	8th	43·9	38·3	41·1	- 5·2	3	0·12	3	- 27	Douglas	0·8	- 1·3	9	0	32	•	•	•	•
2. ENGLAND, N.E.																							
a North ..																							
a Alnwick Castle ..	210	46	2nd	29	8th	43·0	34·6	38·8	- 5·2	7	1·98	50	+ 31										
a Tynemouth	118	46	2nd	30	8th	43·9	38·3	41·1	- 3·7	7	1·50	38	+ 25	Cockle Park ..	1·0	- 1·2	11	1	27	40·5	-1·6	45·1	-1·5
p Durham	336	46	2, 3	32	5, 6	42·9	33·4	38·2	- 5·4	7	1·04	26	+ 12	Durham ..	0·6	- 1·3	7	4	23	•	•	•	•
p Rounton	249	46	2nd	31	2nd	42·7	34·9	38·8	- 4·7	6	0·56	14	0	Rounton ..	•	•	•	5	22	42·5	•	•	•
a West Witton	605	43	2nd	31	2nd	39·9	34·4	37·2	—	7	0·60	15	—	West Witton ..	•	•	•	1	27	40·7	—	45·1	—
p Scarborough	100	—	—	—	—	—	—	—	—	6	0·86	22	+ 6	Scarborought† ..	0·6	- 1·3	7	•	•	•	—	—	—
p York	56	47	8th	33	2nd	43·7	36·3	40·0	- 4·6	6	0·49	12	- 1	York	0·5	- 1·1	6	—	—	44·0	-2·8	48·1	-2·4
b. South ..																							
a Spurn Head	26	48	4th	35	4, 5	45·0	37·4	41·2	- 4·9	5	0·83	21	+ 9	Spurn Head ..	•	•	•	•	•	•	•	•	•
a Lincoln	58	46	2nd	33	4, 5	43·9	36·0	40·0	- 4·4	5	0·61	15	+ 3	Lincoln	•	•	•	0	32	42·2	-2·5	47·8	-2·8
a Fulbeck	180	47	2nd	32	2, 4	42·9	35·3	39·1	- 5·3	5	0·61	16	+ 4	Fulbeck	0·7	- 1·4	8	•	•	—	—	—	—
														Skegness ..	0·6	- 2·0	7	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	46	2, 7	29	4th	43·4	32·6	38·0	- 8·1	7	0·65	16	+ 3	Cromer	0·2	- 2·3	2	•	•	•	•	•	•
a Little Massingham ..	280	45	2nd	31	4th	42·3	34·4	38·4	- 6·0	6	0·95	24	+ 8	Lit. Massingham	0·1	- 2·2	1	•	•	•	•	•	•
a Yarmouth	13	46	7th	34	4th	43·6	38·4	41·0	- 4·9	5	0·52	13	- 1	Yarmouth ..	0·2	—	2	0	37	44·6	-1·2	48·9	-2·6
a Norwich	93	46	2, 7	34	4th	42·7	37·1	39·9	- 5·0	6	0·98	25	+ 10	Norwich ..	0·5	—	6	1	29	41·3	•	•	•
a Geldeston	37	46	7th	34	3rd	43·3	38·0	40·7	- 5·0	4	0·64	16	+ 2	Geldeston ..	0·2	- 2·3	2	•	•	•	•	•	•
p Cambridge	41	48	2nd	32	2nd	42·9	36·1	39·5	- 5·4	5	0·56	14	+ 3	Cambridge ..	0·4	- 2·1	4	1	30	44·2	-2·0	49·5	-2·0
a Clacton-on-Sea ..	54	45	7th	33	4, 5	43·1	37·0	40·1	- 5·9	5	0·53	14	+ 3	Clacton	0·0	- 2·8	0	0	32	43·4	-5·3	50·0	-2·7
a Rothamsted	424	43	2nd	32	4, 5	40·7	35·1	37·9	- 6·5	6	0·42	11	- 4	Rothamsted ..	0·1	- 2·4	1	2	30	41·9	•	•	•
p Tottenham	51	46	2nd	32	4th	43·3	37·0	40·2	—	5	0·25	6	—	Tottenham ..	0·5	—	5	1	30	•	50·4	-2·5	
														S'thend-on-Sea	0·0	—	0	0	31	44·1	—	—	—
4. MIDLAND COUNTIES.																							
a North ..																							
a Harrogate ..	479	44	2nd	32	2nd	40·7	34·1	37·4	- 6·2	6	0·50	13	- 5	Harrogate ..	0·2	- 1·8	2	2	27	42·8	-2·4	46·2	-1·4
p Sheffield	429	44	2, 8	33	4th	42·0	35·3	38·7	—	4	0·49	12	—	Sheffield.. ..	0·4	- 1·4	4	2	28	42·0	-3·4	47·9	-1·9
p Buxton	987	43	2nd	30	5th	38·7	33·1	35·9	—	4	0·30	8	- 21	Buxton	0·5	—	6	3	28	38·7	-4·2	46·3	-2·6
a Rawtry	65	—	—	—	—	—	—	—	—	—	—	—	—	Worksop ..	0·1	- 1·6	1	3	26	42·6	—	46·8	—
a Nottingham	82	45	2nd	33	4, 5, 8	42·7	35·4	39·1	- 5·5	5	0·54	14	+ 2	Nottingham ..	0·1	- 1·5	1	1	28	39·8	-4·3	45·7	-3·7
b. East .. p Birmingham, Edgbas.	535	43	2nd	32	4th	41·0	34·7	37·9	- 6·9	5	0·36	9	- 6	Birmingham ..	0·5	- 1·0	6	3	19	41·2	-4·2	48·0	-1·9
a Raunds	203	45	2, 7	31	4th	42·6	35·4	39·0	- 5·2	6	0·59	15	+ 2	Raunds	0·1	—	1	0	31	43·7	—	49·4	—
p Oxford	208	44	2, 7	32	4th	41·7	35·7	38·7	- 6·7	5	0·27	7	- 8	Oxford	0·2	- 2·0	2	1	27	•	•	•	•
														Malvern ..	1·1	—	12	5	24	41·8	—	48·2	•
c. West ..																							
a Cheadle (N. Staffs.) ..	646	44	2nd	31	5th	41·1	33·7	37·4	- 6·2	3	0·24	6	- 12	Cheadle	•	•	•	3	29	•	•	•	•
p Tenbury	313	43	2, 3, 5	28	4th	41·1	33·6	37·4	- 7·3	4	0·16	4	- 10	Tenbury	•	•	•	4	24	41·7	—	—	—
p Ross-on-Wye	201	45	2nd	30	4th	41·7	35·1	38·4	- 6·8	4	0·19	5	- 10	Ross-on-Wye ..	0·6	—	7	3	28	—	—	—	—
a Clifton	228	43	2, 7	32	4, 8	41·1	35·3	38·2	- 8·3	3	0·11	3	- 21	Clifton	1·0	—	11	3	29	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	43	2nd	32	4, 5	41·3	35·0	38·2	- 5·5	6	0·21	5	- 15	Worthing ..	0·3	- 2·5	3	0	33	43·8	-4·0	50·5	-2·6
p Salisbury (Wilton) ..	180	46	8th	30	8th	42·4	35·1	38·8	- 5·8	4	0·23	6	- 17	Marlborough ..	0·1	- 1·9	1	2	29	42·6	—	49·5	—
a Wisley, Surrey ..	150	45	2, 6	31	2nd	42·1	35·7	38·9	- 6·0	5	0·24	6	- 9	Salisbury ..	•	•	•	1	30	43·5	•	•	•
a Tunbridge Wells ..	354	45	7th	31	4th	41·3	35·6	38·5	- 6·9	7	0·65	17	- 5	Wisley	0·2	- 2·0	2	1	28	42·7	-3·6	48·0	-3·1
a Margate	51	46	6, 7	34	4th	43·7	39·0	41·4	- 5·7	5	0·31	8	- 8	Tunbridge Wells	0·0	- 2·5	0	1	30	45·3	-0·1	50·2	—
														Margate	0·0	- 2·2	0	1	30	44·7	-2·9	51·1	-0·6
a Dungeness	21	47	8th	34	3, 4	45·0	37·3	41·2	- 6·0	6	0·44	11	- 8	Folkestone ..	0·0	—	0	•	•	•	•	49·6	—
p St. Leonards	178	—	—	—	—	—	—	—	—	—	—	—	—	St. Leonards ..	0·0	- 2·8	0	—	—	—	—	—	—
p Southampton	64	44	2nd	34	2, 4	42·0	35·9	39·0	- 7·9	4	0·19	5	- 16	Southampton ..	0·0	- 2·4	0	1	28	•	•	•	•
a Ventnor	59	47	4th	36	3, 4, 5	44·1	37·4	40·8	- 8·3	5	0·33	8	- 14	Ventnor	0·5	- 2·3	5	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	45	2, 7	34	4, 5	43·1	36·8	40·0	- 5·5	4	0·15	4	- 11	Richmond ..	0·2	- 1·7	2	0	32	41·7	-4·5	48·6	-2·9
a Westminster	27	46	2, 6, 7, 8	35	4, 5	44·2	37·8	41·0	- 5·7	5	0·15	4	- 10	Westminster ..	0·3	- 0·9	3	0	32	•	•	•	•
ag Greenwich	149	47	2nd	31	4th	42·9	36·4	39·7	- 5·7	6	0·23	6	- 8	Greenwich ..	0·4	- 1·5	4	3	27	•	•	•	•
a Hampstead	450	44	2nd	32	4th	41·0	35·7	38·4	—	7	0·23	6	—	Hampstead ..	0·3	—	3	4	28	•	•	•	•
ag Camden Square ..	110	47	2nd	31	4th	43·9	36·6	40·3	- 5·8	5	0·18	5	- 10	Camden Square	0·3	- 1·1	3	2	28	•	•	•	•
7. a. ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	41	2, 6	30	8th	29·7	33·3	36·5	- 7·6	5	0·09	2	- 22	Aspatria.. ..	0·1	- 1·9	1	3	26	41·8	-3·1	47·0	-2·3
p Newton Rigg	559	42	2, 5	30	2, 8	40·4	32·9	36·7	- 5·9	4	0·19	5	- 15	Newton Rigg ..	0·2	- 1·5	2	6	22	43·0	-2·1	47·3	-1·1
p Stonyhurst	375	46	2nd	34	2nd	42·3	36·3	39·3	- 5·0	2	0·06	2	- 24	Stonyhurst ..	0·2	- 1·4	2	2	30	•	•	•	•
p Blackpool	66	46	3rd	32	2nd	43·6	35·7	39·7	- 5·8	4	0·08	2	- 19	Blackpool ..	0·2	- 1·7	2	3	23	45·2	—	49·7	—
a Southport	37	45	2nd	33	2nd	43·0	36·0	39·5	- 6·0	2	0·09	2	- 17	Southport ..	0·3	- 1·5	3	4	25	40·4	-3·7	46·4	-2·5
														Hoylake ..	0·8	- 1·1	9	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	44	2, 3, 5, 7	34	2, 5	43·1	36·1	39·6	- 6·5	2	0·05	1	- 15	Liverpool ..	0·7	—	8	3	27	•	•	•	•
a Hawarden Bridge ..	22	46	3rd	34	5th	44·3	37·7	41·0	- 5·5	2	0·06	1	- 13	Manchester(City)	0·0	- 0·7	0	1	29	40·8	-4·5	48·3	-3·2
a Manchester (Whit. Pk.)	125	46	2nd	34	8th	43·6	37·3	40·5	- 5·0	4	0·28	7	- 9	Whitworth Park	0·1	- 0·7	1	•	•	•	•	•	•
b NORTH WALES.																							
p Llandudno	16	47	3, 8	32	4th	45·6	36·1	40·9	- 6·8	4	0·33	9	- 10	Llandudno ..	1·1	- 1·0	12	•	•	•	•	•	•
a Holyhead	15	48	2nd	33	5th	46·0	38·1	42·1	- 6·0	4	0·33	9	- 15	Holyhead ..	1·3	—	14	2	26	•	•	•	•
a Beddgelert	309	—	—	—	—	—	—	—	—	—	—	—	—										
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
8. *a*, SOUTH WALES.																							
a Aberystwyth	59	46	8th	32	5, 6	44·1	34·7	39·4	—	1	0·08	2	—	Aberystwyth ..	2·0	+ 0·3	22	•	•	•	•	•	•
a Rhayader	757	42	7th	30	5th	40·4	33·6	37·0	—	6	0·16	4	—	Rhayader ..	0·2	—	2	5	22	•	•	•	•
a St. Ann's Head	149	48	7th	33	5th	45·3	37·4	41·4	- 7·5	2	0·17	4	- 22	St. Ann's Head	2·1	- 0·2	23	•	•	•	•	•	•
p Cardiff	202	45	2nd	28	8th	42·0	34·9	38·5	- 7·0	2	0·03	1	- 27	Cardiff	1·2	—	13	2	25	42·4	-3·8	49·4	-2·0
b, ENGLAND, S.W.																							
a Bath	66	46	2nd	32	4th	43·4	36·1	39·8	- 5·9	5	0·26	7	- 12	Bath	•	•	•	•	•	44·0	-4·3	49·8	-3·6
a Shaftesbury	722	44	2, 8	31	4, 5	40·6	33·1	36·9	- 8·2	4	0·27	7	- 15	Shaftesbury ..	•	•	•	•	•	40·9	—	49·4	—
a Arlington	613	46	2nd	29	8th	42·4	35·1	38·8	- 7·0	2	0·13	3	- 36										
a Newquay	190	49	8th	33	8th	45·9	37·4	41·7	- 7·7	2	0·63	16	- 8	Newquay ..	2·0	- 0·6	22	•	•	45·6	—	52·7	—
a Cullompton	202	46	2, 8	29	8th	43·3	35·3	39·3	- 6·6	5	0·15	4	- 20	Cullompton ..	0·6	- 1·5	6	3	25	44·2	•	•	•
a Portland Bill	19	48	4th	35	4, 5	45·3	36·9	41·1	- 8·4	5	0·18	5	- 14	Weymouth ..	1·0	—	11	•	•	•	•	•	•
p Plymouth	116	48	2, 8	31	8th	45·4	37·3	41·4	- 7·0	3	0·85	17	- 7	Plymouth ..	1·2	- 1·2	13	1	26	43·6	-5·0	51·0	—
a Falmouth	167	49	8th	35	8th	47·0	38·0	42·5	- 6·6	2	0·65	16	- 16	Falmouth ..	1·6	- 1·0	17	4	26	46·6	—	52·9	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	50	3rd	35	8th	45·3	38·9	42·1	- 4·4	6	1·02	26	+ 5	Malin Head ..	0·9	—	10	•	•	•	•	•	•
a Blacksod Point ..	37	48	2, 6	28	6, 7	45·0	33·6	39·3	- 8·0	3	0·83	21	- 12	Markree Castle	1·7	- 0·3	19	5	18	45·0	-1·8	51·1	-0·2
p Markree Castle ..	122	48	6th	24	2nd	45·6	30·3	38·0	- 6·5	3	0·20	5	- 22										
b, East .. { *p* Armagh	196	45	4th	28	2nd	43·1	33·6	38·4	- 6·1	4	0·05	1	- 17	Armagh	0·8	- 1·3	9	5	20	43·2	-3·0	48·8	-1·5
a Donaghadee	39	46	2-5	32	8th	45·4	40·0	42·7	- 3·4	2	0·67	17	- 2										
10. IRELAND, S.																							
p Dublin, City	47	46	2, 3, 5, 6	31	8th	44·6	37·7	41·2	- 5·7	5	0·49	12	- 6	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
a Birr Castle	175	48	2, 3	26	2, 3	43·9	30·6	37·3	- 7·2	2	0·17	4	- 17	Phœnix Park ..	0·7	- 1·7	8	7	16	•	•	•	•
a Kilkenny	195	47	2nd	23	8th	44·0	32·6	38·3	- 6·8	6	0·07	2	- 19	Dublin City ..	•	•	•	2	27	•	•	•	•
a Waterford	137	47	2nd	27	8th	42·9	34·6	38·8	- 7·8	0	0·00	0	- 26	Birr Castle ..	1·5	- 0·6	17	6	20	•	•	•	•
p Seskin, Carrick-on-Suir	535	48	3rd	29	8th	43·9	33·4	38·7	—	3	0·05	1	—	Seskin	1·5	—	17	3	20	•	•	•	•
a Cahir	199	49	2nd	23	8th	44·0	32·9	38·5	- 6·8	2	0·03	1	—										
a Foynes	50	50	7th	32	2nd	44·9	34·4	39·7	- 6·9	2	0·39	10	- 17										
a Cahirciveen (Val. Obs.)	30	48	7th	28	7, 8	45·7	33·7	39·7	- 9·1	2	0·08	2	- 36	Cahirciveen ..	6·6	+ 4·4	73	2	26	•	•	•	•
a Killarney	174	49	2nd	24	7th	46·9	29·4	38·2	- 9·0	1	0·15	4	- 34	Ballinacurra ..	3·2	+ 1·1	35	•	•	•	○	•	•
a Roche's Point	32	49	2nd	34	5, 8	46·7	36·0	41·4	- 7·0	2	0·02	1	- 28										
11. ENGLISH CHANNEL																							
a Scilly, St. Mary's ..	131	50	7, 8	40	2nd	48·6	42·9	45·8	- 4·4	5	0·59	15	- 9	Scilly	2·2	- 0·5	24	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	52	8th	35	4th	48·7	40·4	44·6	- 5·8	7	1·61	41	+ 11	St. Heliers ..	0·8	- 2·0	9	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	50	5th	35	4th	47·0	42·0	44·5	- 5·9	6	1·33	34	+ 3	Guernsey† ..	0·7	- 1·8	8	1	26	47·5	-3·3	53·0	-1·9

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, November 8th, 1919.

DISTRICT AND STATION	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m./s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	4, 6, 7	23	78	63	4	0	45	16	7	23	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	4	115	49	0	79	6	4	16	15	4	20	0
Aberdeen	153	105	52	—	—	4	6	63	54	45	0	101	11	4	16	19	4	20	10
Edinburgh	485	39	31	—	—	—	—	25	113	30	0	34	8	6	14	13	4	0	55
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	—	—	45	89	34	0	20	10	2	10	15	3	13	0
Paisley	188	81	15	—	—	—	—	—	123	45	0	56	5	3	12	13	6	10	20
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
South Shields	72	61	12	—	—	—	—	70	55	43	0	90	11	3	9	16	3	7	0
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Gorleston	52	42	‡	—	—	2, 3	28	113	27	0	0	—	14	2	24	19	3	0	15
Shoeburyness	103	90	‡	—	—	2, 5	6	69	67	26	0	45	13	2	21	19	2	21	0
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	4	125	27*	12	67	6	5	11	13	2	15	20
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	32	104	32	0	—	10	6	4	16	2	13	0
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument out of adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	76	82	0	10	67	10	5	8	13	5	6	5
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	29	100	39	0	90	9	5	11	15	5	11	5
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	—	36	132	0	326	5	2	12	11	3	13	30
Fleetwood (Cup Anr.) ..	109	44	—	—	—	—	—	35	125	8	0	34	9	3	18	—	—	—	—
Southport	80	62	48	—	—	—	—	42	120	6	0	45	10	3	12	14	3	13	15
Holyhead	60	40	‡	—	—	3	9	88	53	18	0	67	12	3	13	15	3	13	20
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	2, 5	17	67	45	39	0	67	16	5	10	20	5	9	50
Plymouth	185	88	2	—	—	—	—	25	75	68	0	—	8	5	11	15	5	11	35
Lyme Regis	556	61	‡	—	—	—	—	39	49	80	0	—	9	2	6	13	2	1	45
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	3, 5	2	72	92	2	0	45	11	3	19	—	—	—	—
Quilty	100	40	‡	—	—	—	—	6	123	39	0	—	8	8	23	12	8	22	45
Cahirciveen (Val. Obs.)	98	41	‡	—	—	—	—	56	75	37	0	85	7	5	15	12	5	16	30
Weaver Pt.	160	30	‡	—	—	—	—	115	28	0	25	—	9	6	1	14	5	4	5
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	38	102	28	0	90	9	5	4	14	5	4	5

† More exactly the ranges adopted for this classification are > 17·2, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory
* Above tops of trees.
** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FORTY-FIFTH WEEK of 1919—November 2nd to November 8th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Mean Pressure at M.S.L.
	At any "D.-V." Station.		Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	Highest	Lowest	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr	hr.	%	mb.
0. SCOTLAND, NORTH ...	46	32	78·9	75·3	77·1	− 2·2	2	− 21	23	+10	6	+ 1	0·97	25	− 8	0·9	−0·6	10	1015
Eastern.																			
1. SCOTLAND, EAST ...	46	28	78·1	74·3	76·2	− 2·8	0	− 23	30	+13	7	+ 2	1·48	38	+ 18	0·6	−1·4	7	1013
2. ENGLAND, N.E.	48	29	79·4	75·1	77·3	− 2·8	4	− 25	23	+13	6	+ 2	0·94	24	+ 10	0·7	−1·3	8	1009
3. ENGLAND, EAST ...	48	29	79·0	75·3	77·2	− 3·2	2	− 32	21	+11	5	+ 1	0·61	15	+ 2	0·2	−2·3	2	1007
4. MIDLAND COUNTIES ...	45	28	78·3	74·6	76·4	− 3·5	0	− 31	27	+14	5	+ 1	0·33	8	− 9	0·4	−1·5	4	1007
5. ENGLAND, S.E.	47	30	79·0	75·4	77·2	− 3·7	2	− 39	20	+13	5	+ 1	0·31	8	− 13	0·1	−2·3	1	1006
Western.																			
6. SCOTLAND, WEST ...	49	23	79·2	74·4	76·8	− 3·3	3	− 26	27	+18	3	− 2	0·15	4	− 30	0·9	−0·7	10	1012
7. ENGLAND, N.W.	48	30	79·2	75·2	77·2	− 3·4	3	− 30	22	+15	3	− 2	0·16	4	− 19	0·5	−1·3	5	1009
8. ENGLAND, S.W.	49	28	79·4	75·1	77·3	− 4·1	4	− 39	23	+18	4	− 1	0·27	7	− 21	1·3	−1·0	14	1007
9. IRELAND, NORTH ...	50	24	80·1	74·4	77·2	− 3·2	8	− 24	28	+19	3	− 2	0·49	12	− 13	1·3	−0·8	14	1011
10. IRELAND, SOUTH ...	50	23	80·1	73·8	77·0	− 4·2	8	− 34	32	+25	2	− 3	0·16	4	− 23	3·0	+0·8	33	1010
11. ENGLISH CHANNEL ...	52	35	81·9	78·4	80·2	− 3·3	22	− 41	1	+ 1	6	+ 1	1·18	30	+ 2	1·2	−1·4	13	1006

THE SEASON (Autumn).—Aggregates, &c., for the Period of 10 Weeks, August 31st to November 8th, 1919.

0. SCOTLAND, NORTH ...	71	29	84·4	78·6	81·4	− 0·5	432	− 56	59	+ 8	50	+ 2	10·20	259	− 7	3·2	+0·5	29	1015
Eastern.																			
1. SCOTLAND, EAST ...	75	24	85·2	78·0	81·5	− 0·5	461	− 54	81	+ 15	44	+ 4	6·87	175	+ 8	3·6	+0·4	32	1016
2. ENGLAND, N.E.	85	27	86·5	78·5	82·4	− 0·8	565	− 54	75	+ 45	38	+ 2	6·09	156	+ 19	4·0	+0·5	36	1017
3. ENGLAND, EAST ...	88	25	87·1	78·6	82·7	− 1·2	616	− 94	101	+ 70	30	− 5	3·41	87	− 46	4·5	+0·6	40	1017
4. MIDLAND COUNTIES ...	90	26	86·6	77·9	82·1	− 1·1	579	− 65	108	+ 60	29	− 6	4·30	109	− 36	4·1	+0·7	37	1018
5. ENGLAND, S.E.	85	25	87·4	79·0	83·1	− 1·4	674	−104	87	+ 65	24	−11	2·62	67	−103	4·7	+0·6	42	1018
Western.																			
6. SCOTLAND, WEST ...	73	23	85·5	79·0	82·1	− 0·7	517	− 64	66	+ 30	36	− 4	6·61	170	− 84	3·8	+0·6	34	1017
7. ENGLAND, N.W.	84	26	86·0	79·5	82·6	− 1·0	562	− 90	48	+ 27	32	− 8	5·24	132	− 66	3·9	+0·6	35	1018
8. ENGLAND, S.W.	86	27	86·9	79·6	83·1	− 1·2	637	−106	63	+ 47	31	−10	4·24	107	−117	4·5	+0·7	40	1018
9. IRELAND, NORTH ...	75	23	86·5	79·5	82·8	− 0·4	589	− 25	63	+ 36	40	− 4	5·75	145	− 56	3·6	+0·4	32	1017
10. IRELAND, SOUTH ...	75	23	87·0	80·1	83·4	− 0·5	670	− 32	64	+ 42	34	− 7	4·11	105	−101	4·3	+0·7	38	1019
11. ENGLISH CHANNEL ...	83	35	88·2	82·6	85·4	− 0·7	859	− 95	1	+ 1	34	− 8	5·36	135	− 68	5·1	+0·5	46	1018

THE YEAR 1919.—Aggregates, &c., for the Period of 45 Weeks, December 29th, 1918, to November 8th, 1919.

0. SCOTLAND, NORTH ...	78	11	83·6	77·5	80·4	− 0·7	1821	−209	739	+ 149	197	−12	36·20	922	−136	3·7	+0·3	28	1012
Eastern.																			
1. SCOTLAND, EAST ...	78	5	84·5	76·9	80·5	− 0·8	2025	−228	868	+ 185	166	−12	23·13	593	− 75	4·1	+0·1	32	1013
2. ENGLAND, N.E.	85	11	85·6	78·1	81·7	− 0·5	2446	−150	653	+ 151	164	+ 4	22·69	578	+ 39	4·2	−0·2	33	1014
3. ENGLAND, EAST ...	88	10	86·2	78·3	82·1	− 0·8	2683	−301	681	+ 156	148	− 7	20·41	522	+ 10	4·5	−0·3	36	1014
4. MIDLAND COUNTIES ...	90	9	86·2	78·0	82·0	− 0·6	2684	−196	736	+ 166	145	− 9	23·85	606	+ 32	4·2	0·0	33	1015
5. ENGLAND, S.E.	86	16	86·7	79·0	82·7	− 0·7	2936	−253	538	+ 137	140	−11	21·86	553	− 26	4·7	−0·3	37	1015
Western.																			
6. SCOTLAND, WEST ...	83	14	85·0	78·2	81·5	− 0·6	2250	−234	605	+ 153	169	−16	30·70	782	−202	4·5	+0·4	35	1014
7. ENGLAND, N.W.	84	16	85·4	78·9	82·0	− 0·6	2473	−241	542	+ 139	154	−16	24·66	626	−122	4·3	0·0	34	1014
8. ENGLAND, S.W.	86	15	86·2	79·3	82·6	− 0·7	2769	−244	472	+ 155	155	−15	28·64	727	− 83	4·9	+0·2	39	1015
9. IRELAND, NORTH ...	78	22	85·4	78·8	82·0	− 0·5	2407	−179	500	+ 133	189	−14	26·73	673	−139	4·1	+0·2	32	1014
10. IRELAND, SOUTH ...	80	22	86·4	79·5	82·8	− 0·5	2821	−161	426	+ 144	176	− 5	25·64	653	−190	4·4	+0·1	35	1015
11. ENGLISH CHANNEL ...	85	26	87·0	81·5	84·2	− 0·4	3303	−241	138	+ 33	160	−15	30·54	772	+ 98	5·4	−0·3	43	1016
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: November 14th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 46.

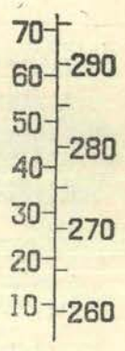
THE FORTY-SIXTH WEEK OF 1919.

SUNDAY, NOVEMBER 9TH, TO SATURDAY, NOVEMBER 15TH, 1919.

Price 6d. Net, Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d. Net.

I.—GENERAL SUMMARY. [First published in 1878.]

The week was remarkable for the exceptionally low temperatures recorded in all parts of the country, but especially in Scotland, where the lowest readings on record for November were passed in many instances. Barometric pressure was persistently high over the Iceland region throughout the week, while during the first half of the period a depression, with several secondaries, was moving eastwards across the United Kingdom. Snow, hail and sleet fell in nearly all parts of the country, with thunder and lightning in many western and northern districts. In the rear of the low pressure system the spell of phenomenally cold weather set in, lasting from Thursday to the end of the week. The frost was particularly severe over Scotland on Friday and Saturday when the maxima at the inland stations were mostly below 270 a. At Balmoral the thermometer did not rise above 261 a. (10°F.). The minimum readings at the same station were correspondingly low, 252 a. in the screen and 249 a. on the grass. Although less severe in other regions the cold wave affected all parts of the United Kingdom, screen minima of 264 a. and below being registered in all the western districts. Precipitation (rain, snow, etc.) was slightly in excess of the normal in England, N.E. and the English Channel, in all other districts the fall was deficient, the divergence from the normal being very large over Ireland and Scotland, N. and W. Over Scotland, E., the precipitation consisted almost entirely of snow, and after the middle of the week it lay on the ground to the depth of 5 inches generally and at Balmoral to a depth of 17 inches. The last few days of the week were characterised by unusually clear skies in the northern and western districts and large daily amounts of sunshine were recorded. Solar halos were observed at Edinburgh on the 9th and at Oxford on the 12th and 15th and a lunar halo at Oxford on the 11th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E.† Shoeburyness.		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	4	3·9	5	2·5	2	2·3	1	0·6	8	1·6	1	0·2	4	1·4	2	0·5
North	15	4·7	17	3·3	21	5·4	24	3·6	16	4·9	27	4·4	18	4·8	20	2·4
West	7	1·8	13	2·1	10	2·4	9	1·0	3	5·7	6	3·1	17	5·8	2	5·2
East	13	7·6	10	4·0	16	5·5	15	2·6	24	5·9	19	4·1	9	6·0	20	2·9
Calm	6	—	5	—	2	—	3	—	1	—	0	—	1	—	5	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient
	Rainfall ...	Light	Moderate	Moderate	Moderate	Light	Moderate	Light	Light	Light	Very light	Light	Moderate
	Sunshine ...	Very abundant	Very abundant	Scanty	Moderate	Scanty	Moderate	Abundant	Very abundant	Abundant	Very abundant	Very abundant	Abundant

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

AUTUMN. 11 weeks from August 31st, 1919.	Warmth ...	2, 3, 6	3, 3, 5	2, 4, 5	2, 3, 6	2, 4, 5	2, 2, 7	4, 1, 6	3, 2, 6	2, 2, 7	4, 1, 6	4, 2, 5	2, 3, 6
	Rainfall ...	2, 5, 4	3, 6, 2	4, 4, 3	1, 5, 5	1, 5, 5	0, 4, 7	1, 4, 6	1, 3, 7	0, 3, 8	0, 5, 6	1, 3, 7	1, 4, 6
	Sunshine ...	6, 3, 2	6, 4, 1	5, 3, 3	3, 7, 1	5, 3, 3	5, 4, 2	7, 1, 3	8, 2, 1	6, 2, 3	6, 2, 3	6, 5, 0	6, 3, 2

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(26179—19) Wt. 162—833/512 625. 11/19 H. St. G. 17/36

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.				Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft Mean.	Earth 4 ft Deviation from Average.
	Ft.	°F.		°F		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F	°F.
0. SCOTLAND, N.																							
a, Islands .. a Lerwick ..	54	42	9th	28	14th	39·6	31·4	35·5	- 6·8	5	0·22	6	- 17										
p Deerness, Orkney ..	165	43	10th	28	15th	37·9	31·7	34·8	—	5	0·74	19	- 2	Deerness ..	3·4	+ 2·0	44	•	•	•	•	•	•
a Stornoway ..	51	45	10th	21	14, 15	37·7	28·9	33 3	- 9·2	5	0·75	19	- 12	Stornoway ..	3·2	+ 0·5	28	•	•	•	•	•	•
a Castlebay, Barra I. ..	37	46	11th	31	14, 15	41·4	34·0	37·7	—	5	0·75	19	—	Castlebay ..	3·1	—	39						
b, Mainland. a Wick ..	81	44	9th	18	15th	37·7	28·1	32·9	- 8·8	4	0·55	14	- 3										
a Strathpeffer ..	125	38	9, 10	9	15th	32·9	21·9	27·4	-13·8	1	0·45	11	- 5										
p Glencarron ..	600	—	—	—	—	—	—	—	—	—	—	—	—										
a Fort Augustus ..	68	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William ..	171	43	9th	11	15th	33·6	21·3	27·5	-14 9	3	0·44	11	- 31										
1. SCOTLAND, E.																							
a Nairn ..	82	39	9th	8	15th	33·0	22·6	27·8	-12·7	4	0·44	11	- 3	Nairn ..	3·5	—	44	•	•	•	•	•	•
p Gordon Castle ..	101	39	9-11	11	15th	33·7	23·0	28·4	-13·1	4	0·74	19	+ 3	Gordon Castle ..	3·5	—	44	•	•	•	•	•	•
a Aberdeen ..	46	42	9th	13	14, 15	33·4	26·0	29·7	-11·7	4	0·38	10	- 7	Aberdeen ..	2·8	+ 1·0	35	6	10	•	•	45·0	-1·2
a Balmoral ..	930	38	9th	-6	14th	25·1	13·1	19·1	-18·6	4	0·94	24	+ 3	Balmoral ..	•	•	•	7	-12	•	•	•	•
p Crieff ..	432	40	11th	6	14th	33·9	20·6	27·3	-13·4	3	0·42	11	- 14	Crathes ..	3·8	+ 2·0	38	7	4	37·6	-4·0	44·1	-1·9
a Dundee ..	244	40	9, 10	11	14th	35·1	22·3	28·7	-11·9	4	0·44	11	- 3	Dundee ..	4·3	—	54	7	2	37·1	•	•	•
a Leith ..	30	42	9th	15	14th	36·7	27·6	32·2	-10·4	3	0·71	18	+ 7	Leith ..	•	•	•	6	9	•	•	•	•
p Edinburgh ..	441	39	10th	18	14th	34·3	26·6	30·5	-11·0	4	0·45	12	0	Edinburgh ..	3·5	+ 1·5	43	7	13	•	•	•	•
a West Linton ..	769	38	9th	-6	14th	31·1	15·6	23·4	-13·8	4	0·56	14	—	West Linton ..	2·9	—	36	7	?	•	•	•	•
p Marchmont ..	498	39	10th	13	15th	36·1	24·7	30·4	- 9·8	5	1·00	25	+ 8	Marchmont ..	1·5	- 0·2	19						
6. a, SCOTLAND, W.																							
a Ford (Argyll) ..	149	41	9, 10, 11	15	13th	37·2	22·5	29·9	—	2	0·35	9	—	Ford (Argyll) ..	•	•	•	7	7	38·3	—	46·6	—
p Glasgow Observatory	180	39	9, 10	13	14th	32·6	25·1	28·9	-12·9	4	0·36	9	- 9	Glasgow ..	2·1	+ 1·1	26	6	6	•	•	•	•
p Rothesay ..	200	41	11th	25	14th	38·6	29·4	34·0	- 8·8	3	0·22	6	- 19	Rothesay ..	4·6	—	57	6	19	37·3	—	45·5	-1·8
a Kilmarnock ..	90	41	9th	13	14, 15	37·3	22·9	30·1	-10·7	2	0·11	3	- 16	Kilmarnock ..	2·9	—	36	•	•	38·4	—	46·5	—
a Colmonell ..	170	42	10th	15	15th	38·1	23·3	30·7	-11·8	2	0·22	6	- 18	Colmonell ..	•	•	•	7	12	•	•	•	•
p Cally, Gatehouse ..	120	42	11th	20	14th	39·7	26·7	33·2	- 8·2	3	0·28	7	- 18	Dumfries ..	4·3	—	52	7	8	38·1	-3·4	45·4	-1·6
p Dumfries ..	160	41	9th	15	14th	36·9	24·4	30·7	-10·8	3	0·33	8	- 9	Eskdalemuir ..	4·0	—	49	6	15	•	•	•	•
a Eskdalemuir ..	794	36	9, 10	19	12th	33·1	24·4	28·8	—	3	0·41	10	—										
b, I. OF MAN p Douglas ..	277	43	9th	27	12th	40·3	30·9	35·6	- 8·6	5	0·12	3	- 20	Douglas ..	3·9	+ 1·7	46	6	21	•	•	•	•
2. ENGLAND, N.E																							
a North .. a Alnwick Castle ..	210	41	9th	22	14th	36·1	28·0	32·1	- 9·9	5	1·07	27	+ 8										
a Tynemouth ..	118	42	9th	25	14th	38·6	30·9	34·8	- 8·0	7	1·00	25	+ 12	Cockle Park ..	1·5	- 0·7	18	5	20	36·0	-3·9	43·6	-1·6
p Durham ..	336	39	9, 10	20	12th	35·6	25 6	30·6	-10·9	7	1·15	29	+ 15	Durham ..	1·3	- 0·6	16	5	10	•	•	•	•
p Rounton ..	249	40	9, 10	19	14th	34·9	25·7	30·3	-11·1	7	0·81	21	+ 7	Rounton ..	•	•	•	7	16	40·5	•	•	•
a West Witton ..	605	38	9th	16	14th	35·3	25·0	30·2	—	7	0·66	17	—	West Witton ..	•	•	•	5	13	38·5	—	44·2	—
p Scarborough ..	100	—	—	—	—	—	—	—	—	3	0·37	9	- 6	Scarborough† ..	1·5	- 0·2	18			•	•	•	•
p York ..	56	41	9, 10	24	12th	37·6	28·4	33·0	- 9·5	5	0·29	7	- 6	York ..	1·3	- 0·1	15	—	—	41·9	-2·9	47·2	-2·6
b, South .. a Spurn Head ..	26	42	14th	31	12, 13	40·0	33·6	36·8	- 7·2	6	0·75	19	+ 7	Spurn Head ..	•	•	•	•	•	•	•	•	•
a Lincoln ..	58	40	9, 10	24	12th	38·7	30·9	34·8	- 7·4	7	0·40	10	- 2	Lincoln ..	•	•	•	5	24	39·7	-2·8	46·6	-2·4
a Fulbeck ..	180	40	9th	22	12th	37·4	28·7	33·1	- 9·2	7	0·30	8	- 4	Fulbeck ..	1·0	- 1·0	12	•	•	—	—	—	—
														Skegness ..	1·3	- 1·0	15	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer ..	196	43	15th	25	13th	41·0	28·3	34·7	- 9·2	7	0·48	12	- 2	Cromer ..	2·7	+ 0·6	31	•	•	•	•	•	•
a Little Massingham ..	280	39	9th	24	13th	37·1	28·4	32·8	- 9·4	5	0·48	12	- 5	Lit. Massingham	2·6	+ 0·7	30	•	•	•	•	•	•
a Yarmouth ..	13	41	9, 13	27	13th	40·0	33·0	36·5	- 7·2	7	0·71	18	+ 3	Yarmouth ..	2·1	—	24	3	25	42·6	-1·0	47·6	-2·2
a Norwich ..	93	40	11, 12	25	14th	38·6	31·3	35·0	- 7·7	7	0·56	14	- 3	Norwich ..	2·1	—	24	5	19	38·4	•	•	•
a Geldeston ..	37	45	13th	23	13, 14	41·0	29·6	35·3	- 6·1	6	0·46	12	- 3	Geldeston ..	1·9	- 0·3	22	•	•	•	•	•	•
p Cambridge ..	41	40	9th	25	13th	38·0	30·1	34·1	- 8·6	4	0·12	3	- 9	Cambridge ..	1·5	- 0·7	17	5	17	41·8	-2·2	48·5	-1·5
a Clacton-on-Sea ..	54	44	9th	28	13th	40·1	33·0	36·6	- 7·1	3	0·20	5	- 7	Clacton ..	2·3	- 0·1	26	4	22	40·5	-6·2	48·5	-2·6
a Rothamsted ..	424	39	9th	25	12th	36·1	30·0	33·1	- 9·2	5	0·24	6	- 11	Rothamsted ..	2·2	- 0·1	25	5	19	39·8	•	•	•
p Tottenham ..	51	42	9th	28	12th	39·1	32·3	35·7	—	1	0·07	2	—	Tottenham ..	1·7	—	20	3	26	•	•	49·2	-2·1
														S'thend-on-Sea	2·0	—	23	4	25	41·7	-3·9	—	—
4. MIDLAND COUNTIES.																							
a North .. a Harrogate ..	479	38	9, 10	23	13th	34·7	28·3	31·5	- 9·8	7	0·34	9	- 5	Harrogate ..	1·1	- 0·9	13	5	20	40·5	-2·9	44·8	-1·5
p Sheffield ..	429	40	9th	26	12th	36·6	29·7	33·2	—	7	0·21	5	—	Sheffield ..	0·5	- 1·3	6	5	19	39·3	-4·3	46·7	-2·0
p Buxton ..	987	38	9th	13	14th	34·0	23·9	29·0	—	5	0·22	6	- 17	Buxton ..	1·7	—	20	5	9	36·6	-4·3	45·9	-2·6
b, East .. a Worksop ..	56	41	9th	23	12th	39·0	27·1	33·1	- 9·1	7	0·33	8	- 1	Worksop ..	1·8	+ 0·1	21	6	15	39·9	—	45·6	—
a Nottingham ..	82	46	13th	20	14th	39·0	27·6	33·3	- 8·9	3	0·20	5	- 4	Nottingham ..	1·1	- 0·4	13	6	19	36·2	-5·6	44·0	-3·7
p Birmingham, Edgbsn.	535	39	9th	25	12th	36·1	28·3	32·2	-10·2	2	0·05	1	- 11	Birmingham ..	0·5	- 0·9	6	7	17	38·7	-5·1	47·0	-2·1
a Raunds ..	203	40	9th	24	12th	38·0	28·9	33·5	- 8·0	6	0·32	8	- 2	Raunds ..	1·9	—	22	5	17	42·2	—	48·4	—
p Oxford ..	208	41	9th	24	12th	38·3	30·3	34·3	- 8·6	3	0·05	1	- 10	Oxford ..	2·2	0·0	25	6	18	•	•	•	•
														Malvern ..	0·9	—	10	6	18	38·7	—	46·5	•
c, West .. a Cheadle (N. Staffs.) ..	646	40	9th	24	12, 14, 15	38·1	26·7	32·4	- 8·8	2	0·16	4	- 11	Cheadle ..	•	•	•	7	23	•	•	•	•
p Tenbury ..	313	40	9th	19	12th	37·0	27·1	32·1	-10·3	2	0·04	1	- 10	Tenbury ..	•	•	•	6	15	38·7	—	—	—
p Ross-on-Wye ..	201	40	9, 11	18	12th	38·0	28·6	33·3	- 9·5	3	0·09	2	- 10	Ross-on-Wye ..	1·3	—	15	5	16	—	—	—	—
a Clifton ..	229	40	9th	23	12th	37·0	28·3	32·7	-11·4	2	0·14	4	- 14	Clifton ..	1·7	—	20	6	21	•	•	•	•
														Worthing ..	2·8	0·0	31	5	21	41·5	-3·7	49·5	-2·1
5. ENGLAND, S.E.														Marlborough ..	1·3	- 0·6	15	6	15	39·6	—	48·4	—
a Marlborough ..	424	41	9th	19	12th	38·7	26·0	31·4	-10·6	4	0·15	4	- 12	Salisbury ..	•	•	•	6	16	40·7	•	•	•
p Salisbury (Wilton) ..	180	45	9th	21	12th	38·7	26·7	32·7	-10·2	3	0·15	4	- 14	Wisley ..	1·0	- 1·1	11	5	11	40·5	-3·7	47·1	-2·6
a Wisley, Surrey ..	150	42	9th	23	12th	38·1	31·0	34·6	- 8·6	4	0·12	3	- 8	Tunbridge Wells	0·8	- 1·7	9	5	17	43·6	+0·4	49·0	—
a Tunbridge Wells ..	354	44	9th	26	13th	38·3	31·6	35·0	- 8·6	3	0·40	10	- 8	Margate ..	1·6	- 0·5	18	2	23	42·7	-3·2	49·5	-0·6
a Margate ..	51	44	9th	30	12th	40·7	34·1	37·4	- 7·9	5	1·54	39	+ 27										
a Dungeness ..	21	45	9, 10	27	13th	41·6	32·7	37·2	- 8·3	4	0·75	19	+ 5	Folkestone ..	2·6	—	29	•	•	•	•	48·5	—
p St. Leonards ..	178	—	—	—	—	—	—	—	—	—	—	—	—	St. Leonards ..	3·0	+ 0·3	34	—	—	—	—	—	—
p Southampton ..	64	42	9th	23	12th	38·9	28·7	33·8	-11·4	3	0·30	8	- 8	Southampton ..	2·4	0·0	27	6	16	•	•	•	•
a Ventnor ..	59	44	9th	27	12th	39·9	32·0	36 0	-11·4	3	1·04	27	+ 10	Ventnor ..	2·5	- 0·3	28	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	43	9th	27	12, 13	39·0	32·1	35·6	- 8·2	3	0·06	2	- 9	Richmond ..	1·7	- 0·2	20	4	17	39·6	-4·4	47·7	-2·5
a Westminster ..	27	47	9th	29	12th	40·3	33·4	36·9	- 8·1	2	0·03	1	- 10	Westminster ..	0·6	- 0·5	7	5	22	•	•	•	•
ag Greenwich ..	149	42	9th	28	12th	38·7	32·3	35·5	- 9·0	1	0·03	1	- 12	Greenwich ..	1·2	- 0·4	14	5	20	•	•	•	•
a Hampstead ..	450	41	9th	26	12th	37·1	30·0	33·6	—	5	0·09	2	—	Hampstead ..	1·8	—	21	6	16	•	•	•	•
ag Camden Square ..	110	42	9th	26	12th	39·9	32·0	36·0	- 8·3	4	0·06	2	- 10	Camden Square	1·3	0·0	15	5	24	•	•	•	•
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	37	10th	20	13th	33·4	24·4	28·9	-12·8	3	0·16	4	- 17	Aspatria ..	3·4	+ 1·2	41	6	18	38·6	-4·5	45·6	-2·8
p Newton Rigg ..	559	41	9th	11	14th	35·4	21·4	28·4	-11·6	3	0·13	3	- 13	Newton Rigg ..	2·1	+ 0·2	25	7	9	40·3	-2·7	46·2	-0·9
p Stonyhurst ..	375	43	9th	23	12, 14	37·0	28·1	32·6	- 9·3	1	0·24	6	- 17	Stonyhurst ..	2·9	+ 1·2	34	5	15	•	•	•	•
p Blackpool ..	66	42	9th	20	14th	37·6	26·9	32 3	-10·8	1	0·25	6	- 11	Blackpool ..	3·5	+ 1·4	41	7	10	42·5	—	48·7	—
a Southport ..	37	42	9th	23	14th	37·3	27·4	32·4	-10·6	1	0·40	10	- 6	Southport ..	3·4	+ 1·4	40	6	10	36·5	-5·3	44·7	-2·7
														Hoylake ..	2·3	+ 0·2	27	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	42	9th	28	15th	38·1	30·3	34·2	- 9·5	2	0·13	3	- 10	Liverpool ..	2·4	—	28	6	20	•	•	•	•
a Hawarden Bridge ..	22	41	9-11	25	12th	39·3	30·1	34·7	- 9·4	2	0·14	4	- 7	Manchester (City)	0·6	0·0	7	6	14	37·4	-5·5	46·8	-3·2
a Mancnester (Whit. Pk.)	125	43	9th	25	12th	38·6	29·9	34·3	- 8·6	5	0·14	4	- 9	Whitworth Park	?	?	?	•	•	•	•	•	•
b, NORTH WALES.																							
p Llandudno ..	16	45	9th	23	14th	41·7	29·7	35·7	- 9·7	4	0·19	5	- 10	Llandudno ..	2·1	- 0·2	24	•	•	•	•	•	•
a Holyhead ..	15	44	9, 11	32	12, 15	42·3	33·9	38·1	- 7·8	5	0·47	12	- 9	Holyhead ..	2·8	—	33	5	25	•	•	•	•
a Beddgelert ..	309	—	—	—	—	—	—	—	—	—	—	—	—										
a Aberdovey ..	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average.
8. *a*, SOUTH WALES.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.									
a Aberystwyth	59	42	12th	23	12th	39·4	28·3	33·9	—	2	0·13	3	—	Aberystwyth ..	hr. 3·3	hr. + 0·8	% 38	°F. •	°F. •	°F. •	°F. •	°F. •	°F. •
a Rhayader	767	38	9th	15	12th	35·0	23·9	29·5	—	5	0·20	5	—	Rhayader ..	1·6	—	18	6	6	•	•	•	•
a St. Ann's Head	149	47	9th	30	14th	41·9	32·9	37·4	- 9·6	4	0·25	6	- 14	St. Ann's Head	3·8	+ 1·4	44	•	•	•	•	•	•
p Cardiff	202	41	12th	25	12th	37·6	28·4	33·0	-10·2	2	0·45	11	- 10	Cardiff	2·7	—	31	6	22	38·8	-5·2	47·8	-2·3
b, ENGLAND, S.W.																							
a Bath	66	48	9th	21	12th	40·1	27·9	34·0	- 9·4	2	0·14	4	- 10	Bath	•	•	•	•	•	41·3	-5·1	48·4	-3·4
a Shaftesbury	722	39	9th	22	12th	38·9	27·0	32·0	-10·8	2	0·18	5	- 12	Shaftesbury ..	•	•	•	•	•	38·6	—	47·5	—
a Arlington	613	41	11th	21	12th	38·1	28·1	33·1	-10·6	3	0·72	18	- 11										
a Newquay	190	46	12th	25	12th	42·2	30·3	36·3	-11·2	4	0·23	6	- 13	Newquay ..	3·0	+ 0·2	34	•	•	42·2	—	51·2	—
a Cullompton	202	43	11, 12	19	12th	39·9	26·6	33·3	-10·5	3	0·30	8	- 9	Cullompton ..	2·2	0·0	25	6	13	41·2	•	•	•
a Portland Bill	19	48	9th	29	12-14	42·3	32·1	37·2	-10·3	3	0·44	11	- 2	Weymouth ..	3·5	—	39	•	•	•	•	•	•
p Plymouth	116	44	12th	25	12th	40·1	30·4	35·3	-11·1	3	0·18	5	- 14	Plymouth ..	2·9	+ 0·3	33	5	19	40·1	-6·6	49·6	—
a Falmouth	167	46	12th	26	12, 13	42·3	30·0	36·2	-11·1	5	0·50	13	- 12	Falmouth ..	3·3	+ 0·5	37	5	19	43·2	—	50·9	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	45	11th	30	14, 15	43·0	32·6	37·8	- 6·8	3	0·51	13	- 5	Malin Head ..	3·9	—	48	•	•	•	•	•	•
{ *a* Blacksod Point ..	37	46	15th	23	14, 15	43·3	29·3	36·3	- 9·2	5	0·45	11	- 18	Markree Castle	4·5	+ 2·3	54	7	10	41·2	-4·1	49·0	-1·2
{ *p* Markree Castle ..	122	46	11th	12	14th	42·4	18·1	30·3	-12·2	3	0·32	8	- 16										
b, East .. { *p* Armagh	196	43	9th	17	15th	39·7	24·3	32·0	-10·6	4	0·16	4	- 12	Armagh	4·6	+ 2·3	55	7	11	39·4	-4·9	47·1	-2·0
{ *a* Donaghadee	39	46	9th	30	9, 14, 15	42·3	32·3	37·3	- 6·9	1	0·08	2	- 15										
10. IRELAND, S.																							
p Dublin, City	47	43	10th	25	15th	39·9	29·1	34·5	-10·5	5	1·00	25	+ 9	Trinity Coll. ..	•	•	•	—	—	—	—	—	—
• *a* Birr Castle	175	42	10th	15	14, 15	38·6	20·0	29·3	-13·3	3	0·12	3	- 15	Phœnix Park ..	3·8	+ 1·7	44	7	11	•	•	•	•
a Kilkenny	195	42	10th	16	12th	39·7	22·1	30·9	-12·2	2	0·07	2	- 16	Dublin City ..	•	•	•	6	19	•	•	•	•
a Waterford	137	43	10th	22	12th	40·1	24·0	32·1	-12·5	2	0·10	3	- 19	Birr Castle ..	4·3	+ 2·4	50	7	10	•	•	•	•
p Seskin, Carrick-on-Suir	535	40	9–11	24	11, 13–15	39·0	25·7	32·4	—	2	0·05	1	—	Seskin	5·2	—	60	7	18	•	•	•	•
a Cahir	198	41	10, 11	15	12th	38·9	21·7	30·3	-13·1	1	0·03	1	—										
a Foynes	50	43	10, 12, 15	22	15th	41·1	27·6	34·4	-10·3	2	0·12	3	- 20										
a Cahirciveen (Val. Obs.)	30	46	9th	23	12th	42·1	27·6	34·9	-12·1	2	0·55	14	- 18	Cahirciveen ..	4·5	+ 2·6	52	7	20	•	•	•	•
a Killarney	174	43	9th	20	15th	40·6	23·6	32·1	-13·2	1	0·70	18	- 15	Ballinacurra ..	4·6	+ 2·8	52	•	•	•	•	•	•
a Roche's Point	32	45	10th	28	12, 13	42·0	30·3	36·2	-10·3	4	0·16	4	- 21										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	47	9, 11, 12	35	11, 12 14	45·4	37·1	41·3	- 8·1	5	0·43	11	- 7	Scilly	4·8	+ 2·8	53	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	51	9th	32	13th	44·9	36·6	40·8	- 7·5	5	1·19	30	+ 8	St. Heliers ..	2·0	- 0·1	22	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	50	9th	34	13th	44·6	37·7	41·2	- 7·1	5	0·81	21	- 3	Guernsey† ..	2·3	+ 0·5	26	5	24	44·9	-4·1	51·7	-1·9

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, November 15th, 1919.

DISTRICT AND STATION	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
0. SCOTLAND, N.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
Deerness (Cup Anr.)** ..	188	16	5	8	5	8, 9	23	48	59	33	0	45	20	8	9	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	22	37	69	34	146	8	9	5	19	9	5	30
Aberdeen	153	105	52	—	—	9	22	21	116	9	0	90	15	9	21	23	9	9	35
Edinburgh	485	39	31	—	—	—	—	33	113	22	0	349	8	11	1	15	9	22	10
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	10	3	43	90	32	0	40	11	10	6	18	10	1	35
Paisley	188	81	15	—	—	—	—	4	81	83	0	67	7	10	4	15	10	0	50
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	30	35	103	0	124	9	9	6	18	10	0	40
South Shields	72	61	12	—	—	9, 10	23	23	90	32	0	113	17	9	24	24	10	2	35
Spurn Head	66	40	‡	Instrument dismounted.				—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Gorleston	52	42	‡	—	—	10 to 12, 14, 15	56	67	44	1	0	—	16	15	10	20	15	18	10
Shoeburyness	103	90	‡	—	—	10, 14, 15	14	108	33	13	0	45	13	15	7	19	15	14	5
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	44	82	42	0	23	8	15	11	16	15	10	50
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	50	97	21	0	—	8	15	11	15	15	10	40
S. Farnboro' (Pyestk Tr)	443	152	‡	—	—	Instrument out of adjustment.		—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	75	45	0	48	23	10	10	18	15	9	18	15
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	37	111	20	0	45	8	15	14	14	15	11	50
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	8	40	120	0	45	8	10	5	15	10	5	20
Fleetwood (Cup Anr.) ..	109	44	—	—	—	10	3	62	101	2	0	34	13	10	13	—	—	—	—
Southport	80	62	48	—	—	10	1	72	90	5	0	45	11	10	12	17	10	12	10
Holyhead	60	40	‡	—	—	10 to 13, 15	33	88	42	5	0	79	15	10	9	21	10	9	25
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	14, 15	13	82	63	10	0	23	13	14	24	16	11	13	20
Plymouth	185	88	2	—	—	—	—	25	113	30	0	—	8	14	22	14	14	12	15
Lyme Regis	556	61	‡	—	—	—	—	77	67	24	0	—	11	15	14	16	15	13	45
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	9 to 12	26	66	74	2	0	56	16	10	9	—	—	—	—
Quilty	100	40	‡	—	—	9	1	17	128	19	3	—	13	9	7	21	9	6	50
Cahirciveen (Val. Obs.)	98	41	‡	—	—	—	—	32	91	36	9	320	10	9	11	18	9	13	35
Weaver Pt.	160	30	‡	—	—	10	2	84	65	4	13	—	12	10	13	16	10	13	5
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	—	—	86	72	10	0	337	10	12	22	16	12	22	10

† More exactly the ranges adopted for this classification are > 17·2, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory
* Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FORTY-SIXTH WEEK of 1919—November 9th to November 15th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			Mean Pressure at M.S.L.
	At any "D.-V." Station.		Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.								
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr	hr.	%	mb.
0. SCOTLAND, NORTH ...	45	9	75·4	69·8	72·6	− 5·7	0	− 17	75	+55	4	− 1	0·48	12	− 18	2·8	+1·6	35	1015
Eastern.																			
1. SCOTLAND, EAST ...	42	−6	73·5	67·3	70·4	− 7·3	0	− 16	103	+77	4	0	0·65	17	− 1	3·2	+1·5	40	1015
2. ENGLAND, N.E.	42	19	76·0	71·3	73·7	− 5·2	0	− 21	62	+46	6	+ 2	0·68	17	+ 3	1·3	−0·6	16	1011
3. ENGLAND, EAST ...	45	23	76·9	72·3	74·6	− 4·6	0	− 25	50	+33	5	+ 1	0·37	9	− 6	2·1	−0·1	24	1008
4. MIDLAND COUNTIES ...	46	18	76·1	70·8	73·4	− 5·2	0	− 21	64	+43	4	0	0·17	4	− 10	1·3	−0·7	15	1010
5. ENGLAND, S.E.	45	19	76·9	72·2	74·6	− 5·3	0	− 31	50	+38	4	0	0·50	13	− 4	2·0	−0·4	22	1007
Western.																			
6. SCOTLAND, WEST ...	42	13	76·1	69·5	72·8	− 6·0	0	− 22	73	+57	3	− 1	0·24	6	− 21	3·0	+1·3	36	1015
7. ENGLAND, N.W.	45	11	76·4	70·9	73·7	− 5·6	0	− 24	61	+48	3	− 1	0·21	5	− 15	2·7	+0·8	32	1011
8. ENGLAND, S.W.	48	15	77·1	71·2	74·2	− 6·1	0	− 33	55	+45	3	− 1	0·34	9	− 13	2·7	+0·3	31	1009
9. IRELAND, NORTH ...	46	12	78·3	69·7	74·0	− 5·3	0	− 24	57	+43	3	− 2	0·27	7	− 15	4·5	+2·2	53	1013
10. IRELAND, SOUTH ...	46	15	77·6	69·2	73·4	− 6·7	0	− 32	65	+54	2	− 2	0·32	8	− 15	4·3	+1·8	49	1014
11. ENGLISH CHANNEL ...	51	32	80·2	75·8	78·1	− 4·3	1	− 49	27	+26	5	0	0·81	31	+ 9	3·0	+0·3	34	1008

THE SEASON (Autumn).—Aggregates, &c., for the Period of 11 Weeks, August 31st to November 15th, 1919.

0. SCOTLAND, NORTH ...	71	9	83·5	77·8	80·6	− 1·0	432	− 73	134	+ 63	54	+ 1	10·61	269	− 27	3·1	+0·4	29	1015
Eastern.																			
1. SCOTLAND, EAST ...	75	−6	84·1	77·0	80·4	− 1·2	461	− 70	184	+ 92	48	+ 4	7·52	192	+ 7	3·5	+0·5	33	1016
2. ENGLAND, N.E.	85	19	85·5	77·8	81·6	− 1·2	565	− 75	137	+ 91	44	+ 4	6·77	173	+ 22	3·8	+0·4	35	1016
3. ENGLAND, EAST ...	88	23	86·1	78·0	81·9	− 1·6	616	−119	151	+103	35	− 4	3·78	96	− 52	4·2	+0·4	39	1016
4. MIDLAND COUNTIES ...	90	18	85·6	77·3	81·3	− 1·5	579	− 86	172	+103	33	− 6	4·47	113	− 46	3·8	+0·6	35	1017
5. ENGLAND, S.E.	85	19	86·4	78·4	82·3	− 1·8	674	−135	137	+103	28	−11	3·12	80	−107	4·4	+0·5	40	1017
Western.																			
6. SCOTLAND, WEST ...	73	13	84·7	78·1	81·3	− 1·2	517	− 86	139	+ 87	39	− 5	6·85	176	−105	3·7	+0·7	34	1017
7. ENGLAND, N.W.	84	11	85·1	78·7	81·8	− 1·4	562	−114	109	+ 75	35	− 9	5·45	137	− 81	3·8	+0·6	35	1017
8. ENGLAND, S.W.	86	15	86·0	78·8	82·3	− 1·6	637	−139	118	+ 92	34	−11	4·58	116	−130	4·3	+0·6	39	1017
9. IRELAND, NORTH ...	75	12	85·7	78·6	82·0	− 0·8	589	− 49	120	+ 79	43	− 6	6·02	152	− 71	3·7	+0·6	34	1017
10. IRELAND, SOUTH ...	75	15	86·1	79·1	82·5	− 1·0	670	− 64	129	+ 96	36	− 9	4·43	113	−116	4·3	+0·8	34	1019
11. ENGLISH CHANNEL ...	83	32	87·5	82·0	84·7	− 1·1	860	−144	28	+ 27	39	− 8	6·17	166	− 59	4·9	+0·4	45	1017

THE YEAR 1919.—Aggregates, &c., for the Period of 46 Weeks, December 29th, 1918, to November 15th, 1919.

0. SCOTLAND, NORTH ...	78	9	83·4	77·4	80·3	− 0·7	1821	−226	814	+ 204	201	−13	36·61	932	−156	3·6	+0·2	28	1012
Eastern.																			
1. SCOTLAND, EAST ...	78	−6	84·2	76·7	80·3	− 0·9	2025	−244	971	+ 262	170	−12	23·78	610	− 76	4·1	+0·1	32	1013
2. ENGLAND, N.E.	85	11	85·4	78·0	81·5	− 0·7	2446	−171	715	+ 197	170	+ 6	23·37	595	+ 42	4·1	−0·2	32	1013
3. ENGLAND, EAST ...	88	10	86·0	78·1	81·9	− 0·9	2683	−326	731	+ 189	153	− 6	20·78	531	+ 4	4·5	−0·2	35	1014
4. MIDLAND COUNTIES ...	90	9	86·0	77·8	81·8	− 0·7	2684	−217	800	+ 209	149	− 9	24·02	610	+ 22	4·2	0·0	33	1014
5. ENGLAND, S.E.	86	16	86·5	78·8	82·5	− 0·9	2936	−284	588	+ 175	144	−11	22·36	566	− 30	4·7	−0·2	37	1015
Western.																			
6. SCOTLAND, WEST ...	83	13	84·9	78·0	81·3	− 0·7	2250	−256	678	+ 210	172	−17	30·94	788	−223	4·4	+0·3	35	1014
7. ENGLAND, N.W.	84	11	85·2	78·7	81·8	− 0·7	2473	−265	603	+ 187	157	−17	24·87	631	−137	4·3	+0·1	34	1014
8. ENGLAND, S.W.	86	15	86·0	79·1	82·4	− 0·8	2769	−277	527	+ 200	158	−16	28·98	736	− 96	4·9	+0·2	39	1015
9. IRELAND, NORTH ...	78	12	85·3	78·6	81·8	− 0·6	2407	−203	557	+ 176	192	−16	27·00	680	−154	4·1	+0·3	32	1014
10. IRELAND, SOUTH ...	80	15	86·3	79·3	82·6	− 0·6	2821	−193	491	+ 198	178	− 7	25·96	661	−205	4·4	+0·1	35	1015
11. ENGLISH CHANNEL ...	85	26	86·8	81·4	84·0	− 0·6	3304	−290	165	+ 59	165	−15	31·35	803	+107	5·4	−0·2	43	1016
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: November 21st, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PRINTED AND PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET, MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

FORTY-SECOND YEAR. *Vol. XXXVI. (New Series.)* } No. 47.

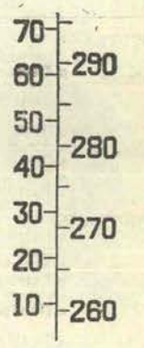
THE FORTY-SEVENTH WEEK OF 1919.

SUNDAY, NOVEMBER 16TH, TO SATURDAY, NOVEMBER 22ND, 1919.

Price 6d. Net, Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d. Net.

I.—GENERAL SUMMARY. [First published in 1878.]

The weather of the week showed a considerable change from that which had prevailed during the preceding four weeks. The distribution of air pressure, which had been persistently high in the north and low in the south, had become reversed, and the north-easterly winds, associated with the former conditions, were displaced by south-westerlies. The change, which had commenced at the close of the previous week, developed very quickly and by Monday mild conditions were general. Heavy rain falling in the west of Scotland during the first few days dispersed the snow; over Scotland E., however, where the rainfall was less heavy, the snow was still lying at some high-level stations at the close of the week. By Wednesday maximum temperatures above 283 a. were general over England, but it was not until Saturday that similar readings were recorded in Scotland, and then the thermometer rose to 285 a. and above in all parts of the Kingdom. Low night minima were not commonly observed after Sunday, when West Linton registered 255 a. in the screen and 252 a. on the grass. Over Ireland and the West of England the mean temperature for the week was slightly above the normal, but elsewhere it was below it. Rainfall was less than the normal in England N.E. and S.E., equal to it in England E., and more than the normal in other Districts; the excesses in Scotland N. and W. were large, 35mm. and 27mm. respectively. Amounts of 20mm. and more in a day were common in the last-named Districts, while 58mm. was measured for the four days, 16th to 19th, at Rothesay, and 59mm. for the three days, 16th to 18th, at Ford. Bright sunshine varied a good deal, some days had good records, while on others there was none; generally the daily mean was more than the normal in the eastern Districts and less in the western. Aurora was witnessed at Aberdeen on the 16th and there were solar halos at Aberdeen on the 22nd, Oxford on the 17th, 18th and 19th, and at Tenbury on the 18th. The zodiacal light was seen at Oxford on the evenings of the 19th, 20th and 22nd.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E.† Shoeburyness.		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	13	6·1	9	3·4	13	3·2	16	2·7	9	3·5	7	3·6	27	4·1	14	3·9
North	11	4·7	10	2·4	9	2·5	6	1·2	13	5·4	17	5·6	0	—	12	2·6
West	23	6·0	25	7·6	26	5·4	25	3·4	28	8·7	27	10·0	28	9·2	26	7·2
East	2	2·1	0	—	0	—	0	—	0	—	0	—	0	—	1	1·2
Calm	1	—	3	—	2	—	3	—	0	—	0	—	0	—	1	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c., is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Very heavy	Heavy	Moderate	Moderate	Moderate	Moderate	Heavy	Heavy	Heavy	Moderate	Moderate	Moderate
	Sunshine ...	Scanty	Abundant	Abundant	Abundant	Abundant	Abundant	Moderate	Moderate	Moderate	Scanty	Scanty	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

AUTUMN. 12 weeks from August 31st, 1919.	Warmth ...	2, 3, 7	3, 3, 6	2, 4, 6	2, 3, 7	2, 4, 6	2, 2, 8	4, 1, 7	3, 2, 7	2, 3, 7	4, 2, 6	4, 3, 5	2, 4, 6
	Rainfall ...	3, 5, 4	4, 6, 2	4, 5, 3	1, 6, 5	1, 6, 5	0, 5, 7	2, 4, 6	2, 3, 7	1, 3, 8	0, 6, 6	1, 4, 7	1, 5, 6
	Sunshine ...	6, 3, 3	7, 4, 1	6, 3, 3	4, 7, 1	6, 3, 3	6, 4, 2	7, 2, 3	8, 3, 1	6, 3, 3	6, 2, 4	6, 5, 1	6, 3, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(26303—19) Wt 162—833/512 625 11/19 H. St. G. 17/ 38

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.				Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.				
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft Mean.	Earth 4 ft Deviation from Average.
	Ft.	F.		°F		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F	°F.
0. SCOTLAND, N.																							
a, Islands: a Lerwick	54	49	22nd	30	16th	43·7	33·0	38·4	- 2·9	6	2·44	62	+ 37										
p Deerness, Orkney	165	47	22nd	28	16th	42·4	34·3	38·4	—	7	2·64	67	+ 44	Deerness	0·6	- 0·4	8	•	•	•	•	•	•
a Stornoway	51	51	17th	29	16th	46·1	34·6	40·4	- 1·1	7	2·17	55	+ 20	Stornoway	0·5	- 0·7	7	•	•	•	•	•	•
a Castlebay, Barra I.	37	52	17th	33	16th	49·1	38·3	43·7	—	7	1·18	30	—	Castlebay	0·7	—	9	•	•	•	•	•	•
b, Mainland: a Wick	81	51	22nd	19	16th	43·7	29·6	36·7	- 3·9	7	1·50	38	+ 20										
a Strathpeffer	125	56	22nd	16	16th	43·9	30·1	37·0	- 3·0	5	1·77	45	+ 27										
p Glencarron	500	50	22nd	26	16th	42·1	32·6	37·4	- 2·2	7	4·65	118	+ 61										
a Fort Augustus	68	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William	171	51	22nd	20	16th	43·9	32·6	38·3	- 3·0	7	3·74	95	+ 45										
1. SCOTLAND, E.																							
a Nairn	82	53	22nd	211	16th	43·1	29·3	36·2	- 3·5	6	1·18	30	+ 18	Nairn	0·5	—	7	•	•	•	•	•	•
p Gordon Castle	101	49	22nd	23	16th	42·3	31·1	36·7	- 4·0	7	0·59	15	+ 1	Gordon Castle	1·0	—	14	•	•	•	•	•	•
a Aberdeen	46	51	22nd	14	16th	43·1	29·6	36·4	- 4·2	4	0·54	14	- 1	Aberdeen	2·4	+ 0·7	32	6	11	•	•	43·0	- 2·0
a Balmoral	930	52	22nd	7	16th	40·6	26·6	33·6	- 3·3	5	0·93	24	+ 6	Balmoral	•	•	•	7	5	•	•	•	•
p Crieff	432	52	22nd	23	16th	43·3	30·9	37·1	- 2·7	6	1·78	45	+ 23	Crathes	1·9	+ 0·2	25	7	8	35·2	- 4·9	42·2	- 2·2
a Dundee	244	52	22nd	17	16th	42·9	28·9	35·9	- 3·9	4	0·89	23	+ 11	Dundee	3·3	—	43	6	9	35·0	•	•	•
a Leith	30	55	22nd	18	16th	46·3	30·9	38·6	- 3·2	5	1·47	37	+ 27	Leith	•	•	•	4	16	•	•	•	•
p Edinburgh	441	52	22nd	24	16th	43·6	33·3	38·5	- 2·2	5	1·22	31	+ 20	Edinburgh	2·6	+ 0·6	34	4	20	•	•	•	•
a West Linton	769	51	22nd	- 1	16th	43·3	24·3	33·8	- 2·7	5	1·80	46	—	West Linton	2·0	—	26	6	— 5	•	•	•	•
p Marchmont	498	49	22nd	12	16th	42·3	28·0	35·2	- 4·1	5	1·11	28	+ 13	Marchmont	2·5	+ 0·9	32	•	•	•	•	•	•
6. a, SCOTLAND, W.																							
a Ford (Argyll)	149	51	17, 22	16	16th	47·8	32·4	40·1	—	7	3·93	100	—	Ford (Argyll)	•	•	•	3	9	36·5	—	44·1	—
p Glasgow Observatory	180	52	22nd	12	16th	44·0	32·1	38·1	- 3·1	6	2·24	57	+ 36	Glasgow	1·2	+ 0·3	16	4	8	•	•	•	•
p Rothesay	200	50	17, 18, 22	28	16th	45·3	34·3	39·8	- 2·4	7	3·17	81	+ 53	Rothesay	1·4	—	18	5	21	36·3	—	43·4	- 2·8
a Kilmarnock	90	52	22nd	15	16th	47·9	31·9	39·9	- 0·3	7	2·06	52	+ 31	Kilmarnock	1·0	—	13	•	•	36·0	—	44·5	—
a Colmonell	170	53	22nd	16	16th	48·3	33·1	40·7	- 1·2	7	1·80	46	+ 18	Colmonell	•	•	•	2	14	•	•	•	•
p Cally, Gatehouse	120	50	22nd	17	16th	45·4	32·9	39·2	- 1·6	7	1·76	45	+ 16	Dumfries	2·2	—	28	4	7	37·2	- 2·8	43·3	- 1·7
p Dumfries	160	53	22nd	13	16th	45·0	31·4	38·2	- 2·6	7	1·24	31	+ 11	Eskdalemuir	2·0	—	26	5	1	•	•	•	•
a Eskdalemuir	794	53	22nd	7	16th	42·4	24·7	33·6	—	7	2·69	68	—										
b, I. OF MAN p Douglas	277	54	22nd	27	16th	48·1	37·7	42·9	- 0·7	7	1·77	45	+ 18	Douglas	1·8	- 0·2	23	1	20	•	•	•	•
2. ENGLAND, N.E																							
a North: a Alnwick Castle	210	54	22nd	17	16th	45·4	30·9	38·2	- 2·9	3	0·42	11	- 2										
a Tynemouth	118	55	22nd	24	16th	45·6	31·3	38·5	- 3·3	2	0·24	6	- 4	Cockle Park	3·7	+ 1·6	47	5	21	35·9	- 2·8	41·9	- 1·9
a Durham	336	54	22nd	16	16th	45·1	31·1	38·1	- 2·4	4	0·20	5	- 5	Durham	3·1	+ 1·3	39	6	8	•	•	•	•
p Rounton	249	51	22nd	15	16th	44·7	30·3	37·5	- 2·9	4	0·35	9	- 2	Rounton	•	•	•	7	7	39·0	•	•	•
a West Witton	605	51	22nd	21	16th	44·3	30·9	37·6	—	5	0·88	22	—	West Witton	•	•	•	5	17	37·8	—	42·8	—
p Scarborough	100	—	—	—	—	—	—	—	—	5	0·19	5	- 7	Scarborough†	3·7	+ 2·0	46	•	•	•	•	—	—
p York	56	53	22nd	21	16th	46·7	33·4	40·1	- 1·4	5	0·39	10	0	York	2·6	+ 1·2	33	—	—	40·2	- 3·1	45·7	- 2·2
b, South: a Spurn Head	26	51	22nd	30	16, 17, 21	44·6	33·4	39·0	- 3·9	4	0·43	11	+ 2	Spurn Head	•	•	•	•	•	•	•	•	•
a Lincoln	58	54	22nd	24	16th	46·3	32·9	39·6	- 1·6	6	0·44	11	+ 1	Lincoln	•	•	•	4	22	38·5	- 2·3	44·9	- 2·6
a Fulbeck	180	53	22nd	21	16th	45·9	31·6	38·8	- 2·5	7	0·39	10	0	Fulbeck	2·6	+ 0·7	32	•	•	•	•	•	•
														Skegness	3·1	+ 0·8	38	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	54	22nd	26	17th	46·0	29·6	37·8	- 4·5	3	0·19	5	- 5	Cromer	3·1	+ 1·3	38	•	•	•	•	•	•
a Little Massingham	280	53	19th	25	16th	44·9	30·6	37·8	- 2·9	4	0·57	14	+ 2	Lit. Massingham	3·0	+ 1·4	36	•	•	•	•	•	•
a Yarmouth	13	53	22nd	31	22nd	46·0	33·4	39·7	- 2·5	5	0·34	9	- 2	Yarmouth	2·8	—	34	2	28	41·0	- 1·3	45·3	- 3·0
a Norwich	93	53	22nd	30	16th	45·9	34·1	40·0	- 1·2	5	0·49	12	0	Norwich	3·1	—	37	4	21	37·1	•	•	•
a Geldeston	37	54	22nd	28	16, 22	48·0	32·7	40·4	- 1·6	4	0·39	10	- 1	Geldeston	3·1	+ 1·3	37	•	•	•	•	•	•
p Cambridge	41	54	19th	27	16, 22	47·3	33·1	40·2	- 1·0	4	0·41	10	+ 1	Cambridge	2·6	+ 0·9	31	4	19	41·0	- 1·6	46·9	- 1·7
a Clacton-on-Sea	54	53	22nd	28	16, 17	46·6	34·6	40·6	- 1·6	5	0·62	16	+ 7	Clacton	3·0	+ 1·0	36	2	25	40·0	- 5·2	46·7	- 2·8
a Rothamsted	424	55	22nd	25	16th	46·9	33·7	40·3	- 0·6	5	0·51	13	+ 1	Rothamsted	2·8	+ 1·0	33	5	23	39·6	•	•	•
p Tottenham	51	53	19th	28	16, 17	48·0	36·0	42·0	—	5	0·53	13	—	Tottenham	2·3	—	27	1	24	•	•	•	•
														S'thend-on-Sea	2·6	—	31	2	25	40·6	- 2·8	—	—
4. MIDLAND COUNTIES.																							
a North: a Harrogate	479	52	22nd	23	16th	45·0	33·1	39·1	- 1·2	5	0·80	20	+ 9	Harrogate	3·0	+ 1·4	38	4	17	39·0	- 3·0	43·2	- 1·8
p Sheffield	429	55	22nd	29	16th	47·1	35·6	41·4	—	6	0·95	24	—	Sheffield	2·3	+ 0·8	28	2	20	39·0	- 3·1	45·2	- 2·3
p Buxton	987	48	22nd	17	16th	42·4	31·6	37·0	—	7	2·23	57	+ 37	Buxton	1·1	—	14	3	18	35·8	- 3·7	43·1	- 3·4
b East: a Worksop	56	55	22nd	21	16th	47·4	31·6	39·5	- 1·7	5	0·45	11	+ 3	Worksop	1·8	+ 0·5	22	6	11	38·9	—	43·9	—
a Nottingham	82	54	22nd	23	16, 17	47·0	32·1	39·6	- 1·6	7	0·61	15	+ 7	Nottingham	1·2	0·0	15	5	18	37·2	- 3·1	41·8	- 4·2
p Birmingham, Edgbsn.	535	52	19, 22	26	16th	46·6	34·3	40·5	- 0·9	6	0·86	22	+ 12	Birmingham	1·5	+ 0·3	18	3	17	39·8	- 3·0	45·8	- 2·4
a Raunds	203	54	22nd	23	16th	47·4	32·0	39·7	- 0·8	6	0·40	10	+ 1	Raunds	2·6	—	31	4	18	40·7	—	47·4	—
p Oxford	208	53	19th	25	16th	48·4	35·1	41·8	- 0·1	6	0·31	8	- 2	Oxford	2·8	+ 1·0	33	3	15	•	•	•	•
														Malvern	2·5	—	30	4	23	39·3	—	44·7	—
c, West: a Cheadle (N. Staffs.)	646	53	22nd	23	16th	45·1	32·9	39·0	- 1·1	7	1·24	32	+ 20	Cheadle	•	•	•	4	18	•	•	•	•
p Tenbury	313	55	22nd	19	16th	49·3	34·6	42·0	+ 0·5	6	0·37	9	0	Tenbury	•	•	•	4	15	39·1	—	—	—
p Ross-on-Wye	201	58	22nd	22	16th	50·6	36·3	43·5	+ 1·7	6	0·16	4	- 6	Ross-on-Wye	2·1	—	25	2	18	—	—	—	—
a Clifton	226	52	22nd	25	16th	49·0	36·4	42·7	- 0·4	6	0·55	14	- 1	Clifton	2·2	—	26	1	22	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	52	19, 22	17	16th	48·1	32·3	40·2	- 0·4	6	0·74	19	+ 5	Worthing	2·8	+ 0·7	33	3	23	41·4	- 2·4	47·7	- 2·5
p Salisbury (Wilton)	180	54	19, 22	25	16th	49·9	34·0	42·0	+ 0·6	5	0·64	16	0	Marlborough	2·0	+ 0·5	24	4	15	40·5	—	47·0	—
a Wisley, Surrey	150	54	19, 22	26	16th	48·3	35·4	41·9	+ 0·2	6	0·39	10	0	Salisbury	•	•	•	2	17	41·1	—	•	•
a Tunbridge Wells	354	54	22nd	26	16th	48·3	34·0	41·2	- 0·9	6	0·43	11	- 4	Wisley	2·7	+ 1·1	32	3	12	40·3	- 2·5	45·8	- 2·5
a Margate	51	54	19, 22	34	16, 17	47·9	37·3	42·6	- 1·1	5	0·43	11	+ 1	Tunbridge Wells	2·3	+ 0·5	27	4	20	42·6	+ 0·9	47·4	—
														Margate	2·5	+ 0·9	30	0	31	41·7	- 3·4	47·3	- 1·4
a Dungeness	21	50	18, 19	26	16th	47·7	34·4	41·1	- 2·9	5	0·64	16	+ 4	Folkestone	2·3	—	27	•	•	•	•	47·6	—
p St. Leonards	178	—	—	—	—	—	—	—	—	—	—	—	—	St. Leonards	3·2	+ 1·1	37	—	—	—	—	—	—
p Southampton	64	53	19, 22	26	16th	49·7	35·6	42·7	- 1·0	6	0·35	9	- 5	Southampton	2·5	+ 0·7	30	3	17	•	•	•	•
a Ventnor	59	53	22nd	30	16th	50·7	39·9	45·3	- 0·6	5	0·58	15	+ 1	Ventnor	2·4	+ 0·3	28	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	54	22nd	27	17th	48·0	34·9	41·5	- 0·8	6	0·43	11	+ 1	Richmond	2·6	+ 1·2	31	4	16	39·7	- 2·9	46·2	- 2·7
a Westminster	27	55	19th	27	16th	48·9	35·3	42·1	- 1·4	4	0·39	10	+ 1	Westminster	1·6	+ 0·8	19	4	20	•	•	•	•
ag Greenwich	149	54	19th	28	16th	47·7	35·4	41·6	- 1·8	7	0·47	12	- 1	Greenwich	1·3	- 0·1	15	5	19	•	•	•	•
a Hampstead	450	51	19th	24	16th	45·3	33·9	39·6	—	6	0·56	14	—	Hampstead	2·4	—	29	7	16	•	•	•	•
ag Camden Square	110	53	19, 22	27	16th	48·0	35·1	41·6	- 1·2	7	0·55	14	+ 4	Camden Square	1·9	+ 0·9	23	4	21	•	•	•	•
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	51	22nd	21	16th	44·4	32·6	38·5	- 2·4	7	1·39	35	+ 14	Aspatria	1·3	- 0·5	16	3	17	39·3	- 2·5	44·1	- 3·3
p Newton Rigg	559	52	22nd	10	16th	44·7	30·0	37·4	- 1·8	6	0·48	12	- 6	Newton Rigg	2·4	+ 0·8	30	4	7	38·6	- 2·8	44·1	- 1·7
p Stonyhurst	375	52	22nd	21	16th	45·3	34·4	39·9	- 1·2	7	2·41	61	+ 38	Stonyhurst	1·3	- 0·1	16	2	10	•	•	•	•
p Blackpool	66	53	19th	20	16th	49·0	35·1	42·1	- 0·1	6	1·06	27	+ 10	Blackpool	1·7	0·0	21	3	9	41·3	—	47·2	—
a Southport	37	50	22nd	21	16th	47·3	35·1	41·2	- 1·0	6	1·03	26	+ 10	Southport	1·7	0·0	21	2	11	36·4	- 3·9	42·3	- 3·5
														Hoylake	1·6	- 0·2	20	•	•	•	•	•	•
a Liverpool (Bidston)	188	55	22nd	27	16th	48·6	36·6	42·6	- 0·3	6	0·87	22	+ 9	Liverpool	1·7	—	21	3	21	•	•	•	•
a Hawarden Bridge	22	—	—	31	16th	—	38·7	—	—	5	1·20	30	+ 19	Manchester (City)	0·5	0·0	6	1	12	36·8	- 4·4	44·4	- 4·1
a Manchester (Whit. Pk.)	125	54	22nd	23	16th	46·3	35·6	41·0	- 1·1	7	1·80	46	+ 32	Whitworth Park	0·6	0·0	7	•	•	•	•	•	•
b, NORTH WALES.																							
p Llandudno	16	54	22nd	27	16th	50·0	38·9	44·5	- 0·1	5	0·89	23	+ 7	Llandudno	0·8	- 1·1	10	•	•	•	•	•	•
a Holyhead	15	55	22nd	33	16th	50·3	40·0	45·2	+ 0·1	6	0·76	19	- 2	Holyhead	1·1	—	14	1	28	•	•	•	•
a Beddgelert	309	—	—	—	—	—	—	—	—	—	—	—	—										
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%	oF.	°F.	°F.	°F.	°F.	°F.
3. *a*. SOUTH WALES.																							
a Aberystwyth	59	49	19, 22	37	16th	47·9	40·7	44·3	—	5	0·94	24	—	Aberystwyth ..	1·1	– 0·8	13	*	*	*	*	*	*
a Rhayader	757	53	22nd	17	16th	48·9	34·0	41·5	—	7	2·05	52	—	Rhayader ..	1·0	—	12	1	16	*	*	*	*
a St. Ann's Head	149	53	22nd	33	16th	50·7	42·3	46·5	+ 0·5	6	1·11	28	+ 9	St. Ann's Head ..	1·9	0·0	23	*	*	*	*	*	*
p Cardiff	202	53	22nd	28	16th	48·9	40·0	44·5	+ 2·3	6	1·38	35	+ 15	Cardiff	2·1	—	25	2	24	40·3	– 2·4	46·1	– 2·6
b. ENGLAND, S.W.																							
a Bath	66	54	19th	26	16th	51·1	36·4	43·8	+ 1·4	5	0·87	17	+ 3	Bath	*	*	*	—	—	41·2	– 3·5	46·5	– 3·8
a Shaftesbury	722	52	22nd	24	16th	49·0	35·0	42·0	+ 0·3	5	0·92	23	+ 7	Shaftesbury ..	*	*	*	—	*	40·1	—	46·0	—
a Arlington	613	55	20th	26	16th	50·9	36·8	43·9	+ 1·2	7	2·87	73	+ 45										
a Newquay	190	53	22nd	31	16th	51·8	42·5	47·2	+ 0·6	7	1·26	32	+ 14	Newquay ..	1·5	— 0·7	17	*	*	44·8	—	49·5	—
a Cullompton	202	57	22nd	23	16th	51·7	36·7	44·2	+ 1·4	6	1·15	29	+ 11	Cullompton ..	1·8	+ 0·1	21	3	15	42·4	*	*	*
a Portland Bill	19	54	22nd	32	16th	51·3	41·4	46·4	– 0·1	4	0·44	11	– 2	Weymouth ..	2·5	—	29	*	*	*	*	*	*
p Plymouth	116	56	22nd	26	16th	51·4	41·7	46·6	+ 1·2	7	1·32	34	+ 15	Plymouth ..	1·8	– 0·3	21	1	19	41·8	– 3·7	47·6	—
a Falmouth	167	57	22nd	27	16th	52·1	40·3	46·2	– 0·1	6	1·36	35	+ 10	Falmouth ..	1·9	– 0·4	23	1	19	45·0	—	48·6	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	55	21st	35	16th	51·0	40·6	45·8	+ 1·6	6	0·87	22	+ 3	Malin Head ..	1·5	—	20	*	*	*	*	*	*
a Blacksod Point ..	37	53	16, 17, 22	30	16th	51·1	39·4	45·3	+ 0·1	7	1·18	30	– 1	Markree Castle	0·6	– 1·0	8	3	21	41·9	– 2·3	47·4	– 1·8
p Markree Castle ..	122	57	22nd	27	16th	50·3	38·3	44·3	+ 2·2	7	1·38	35	+ 10										
b, East .. { *p* Armagh	196	54	22nd	25	16th	47·3	36·3	41·8	– 0·4	7	0·95	24	+ 7	Armagh	1·7	– 0·1	21	2	18	39·0	– 4·0	44·9	– 3·0
a Donaghadee	39	55	22nd	29	17th	49·0	36·3	42·7	– 1·0	6	0·73	19	+ 1										
10. IRELAND, S.																							
p Dublin, City	47	56	22nd	26	16th	48·9	37·4	43·2	– 1·0	5	0·46	12	– 1	Trinity Coll. ..	*	*	*	—	—	—	—	—	—
a Birr Castle	175	55	22nd	?15	16th	49·9	32·7	41·3	– 0·6	7	0·73	19	+ 3	Phœnix Park ..	1·5	– 0·6	19	3	10	*	*	*	*
a Kilkenny	195	56	22nd	20	16th	51·0	32·7	41·9	– 0·5	7	0 61	15	– 1	Dublin City ..	*	*	*	1	19	*	*	*	*
a Waterford	137	58	17, 22	25	16th	51·9	36·9	44·4	+ 0·5	6	0·51	13	– 6	Birr Castle ..	1·3	– 0·6	18	3	12	*	*	*	*
p Seskin, Carrick-on-Suir	535	56	22nd	26	16th	49·3	37·9	43·6	—	6	0·79	20	—	Seskin	1·9	—	23	1	22	*	*	*	*
a Cahir	199	57	22nd	18	16th	51·4	34·9	43·2	+ 0·5	7	1·33	34	—										
a Foynes	50	56	22nd	26	16th	51·7	39·3	45·5	+ 1·5	7	1·44	37	+ 16										
a Cahirciveen (Val. Obs.)	30	55	22nd	28	16th	53·0	40·7	46·9	+ 0·5	7	1·22	31	+ 3	Cahirciveen ..	0·9	– 1·0	11	1	23	*	*	*	*
a Killarney	174	58	22nd	24	16th	53·2	38·4	45·8	+ 1·2	7	1·77	45	+ 15	Ballinacurra ..	1·4	– 0·4	17	*	*	*	*	*	*
a Roche's Point	32	59	22nd	30	16th	52·1	39·7	45·9	+ 0·1	7	0·52	13	– 9										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	54	17, 22	36	16th	52·4	43·7	48·1	– 0·6	7	0·63	16	– 1	Scilly	1·6	– 0·4	19	*	*	*	*	*	*
a Jersey, St. Aubins ..	25	55	17, 19	36	16th	52·9	43·6	48·3	+ 0·9	7	1·30	33	+ 14	St. Heliers ..	1·6	– 0·5	19	*	*	*	*	*	*
a Guernsey (Villa Carey)	180	54	19, 22	37	16th	52·4	44·0	48·2	+ 0·8	7	1·08	28	+ 7	Guernsey† ..	1·9	+ 0·1	22	1	28	46·0	– 1·8	49 7	– 2·6

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, November 22nd, 1919.

DISTRICT AND STATION	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m./s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	21	1	17 to 21	36	77	50	4	0	304	17	21	3	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	21	103	41	3	214	8	17	17	19	21	9	25
Aberdeen	153	106	52	—	—	20, 21	23	34	95	16	0	293	14	21	4	23	21	7	45
Edinburgh	485	39	31	—	—	17 to 19, 22	25	98	29	16	0	236	14	17	17	25	17	16	10
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	17 to 22	33	75	24	38	0	280	14	17	8	23	{17	23	15
																	{22	12	5
Paisley	188	81	15	—	—	—	—	57	81	30	0	315	10	20	17	25	19	19	25
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	40	101	27	0	304	8	20	20	17	19	7	10
South Shields	72	61	12	—	—	18, 20	5	76	76	11	0	293	12	20	12	20	19	20	5
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Gorleston	52	42	‡‡		Instrument dismounted for alterations.														
Shoeburyness	103	90	‡	—	—	19, 20	3	111	46	8	0	203	12	19	11	20	20	14	35
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	—	—	58	81	29	0	270	10	20	13	18	20	13	10
5. ENGLAND, S.E.																			
Brighton	281	53	6	—	—	—	—	71	78	19	0	—	11	17	23	18	20	11	45
S. Farnboro' (Pyestk Tr)	443	152	‡‡	—	Instrument out of adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	33	113	22	0	293	8	20	14	17	20	13	50
7. ENGLAND, N.W.																			
Carnforth	248	56	23	—	—	—	—	61	64	43	0	225	10	20	4	19	19	15	45
Fleetwood (Cup Anr.) ..	109	44		20	9	17 to 22	49	64	38	8	0	304	20	20	18	—	—	—	—
Southport	80	62	48	20	7	17 to 22	84	35	39	3	0	270	18	20	10	26	21	2	10
Holyhead	60	40	‡	20	5	16 to 22	65	88	10	0	0	315	18	20	18	25	20	16	55
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	17 to 19	8	16 to 22	41	82	32	5	0	247	20	19	10	30	20	5	50
Plymouth	185	88	2	—	—	17, 19	5	56	85	22	0	—	12	17	22	21	20	8	30
Lyme Regis	556	61	‡	—	—	19, 22	4	80	65	10	9	—	12	22	19	19	20	14	5
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27		—	—	16 to 22	85	62	17	4	0	236	17	17	19	—	—	—	—
Quilty	100	40	‡‡	17	1	16 to 20, 22	68	84	13	2	0	—	17	17	15	29	20	2	40
Cahirciveen (Val. Obs.)	98	41	‡‡	—	—	17, 19, 20	14	109	34	11	0	230	15	17	16	22	17	17	35
Weaver Pt.	160	30	‡	—	—	17, 20	9	87	62	4	6	—	13	17	17	22	20	12	20
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	16 to 22	73	72	18	0	5	315	17	20	8	23	16	19	0

† More exactly the ranges adopted for this classification are > 17·2, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory
* Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FORTY-SEVENTH WEEK of 1919—November 16th to November 22nd, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr	hr.	%	mb.
0. SCOTLAND, NORTH ...	56	16	79·6	73·1	76·3	− 1·4	5	− 9	36	+13	7	+ 2	2·71	69	+ 35	0·6	−0·4	8	1000
Eastern.																			
1. SCOTLAND, EAST ...	55	−1	79·1	71·2	75·2	− 2·0	3	− 10	48	+19	5	+ 1	1·17	30	+ 15	2·2	+0·6	29	1002
2. ENGLAND, N.E.	55	15	80·6	73·0	76·8	− 1·5	10	− 7	38	+19	5	+ 1	0·33	8	− 3	3·1	+1·3	39	1008
3. ENGLAND, EAST ...	55	25	81·1	73·6	77·4	− 0·9	13	− 5	35	+15	4	0	0·45	11	0	2·8	+1·1	34	1012
4. MIDLAND COUNTIES ...	58	19	81·7	74·0	77·8	− 0·3	16	− 1	33	+ 9	6	+ 2	0·58	15	+ 4	2·1	+0·6	25	1013
5. ENGLAND, S.E.	54	17	82·3	74·8	78·6	− 0·5	19	− 4	19	+ 4	6	+ 2	0·51	13	− 1	2·5	+0·8	30	1014
Western.																			
6. SCOTLAND, WEST ...	54	12	81·1	73·7	77·4	− 1·0	13	− 5	34	+15	7	+ 2	2·25	57	+ 27	1·5	0·0	19	1006
7. ENGLAND, N.W.	55	10	81·4	74·9	78·2	− 0·6	15	− 4	27	+11	6	+ 2	1·20	31	+ 11	1·5	−0·1	19	1011
8. ENGLAND, S.W.	57	17	83·3	76·6	80·0	+ 0·3	33	+ 6	10	− 3	6	+ 2	1·33	34	+ 13	1·6	−0·3	19	1016
9. IRELAND, NORTH ...	57	15	82·9	75·9	79·4	+ 0·3	30	+ 9	13	− 2	7	+ 2	0·97	25	+ 3	1·2	−0·6	14	1009
10. IRELAND, SOUTH ...	59	15	83·8	75·8	79·8	+ 0·1	36	+ 8	14	+ 1	7	+ 3	0·95	24	+ 3	1·3	−0·7	15	1016
11. ENGLISH CHANNEL ...	55	36	84·4	79·6	82·0	+ 0·1	43	− 1	0	− 2	7	+ 2	1·00	26	+ 7	1·7	−0·3	20	1019

THE SEASON (Autumn).—Aggregates, &c., for the Period of 12 Weeks, August 31st to November 22nd, 1919.

0. SCOTLAND, NORTH ...	71	9	83·2	77·4	80·2	− 1·1	437	− 82	176	+ 82	61	+ 3	13·32	338	+ 8	2·9	+0·4	28	1014
Eastern.																			
1. SCOTLAND, EAST ...	75	−6	83·7	76·6	80·0	− 1·3	464	− 80	232	+111	53	+ 5	8·69	222	+ 22	3·4	+0·5	33	1015
2. ENGLAND, N.E.	85	15	85·1	77·4	81·2	− 1·3	575	− 82	175	+110	49	+ 5	7·10	181	+ 19	3·7	+0·5	35	1015
3. ENGLAND, EAST ...	88	23	85·7	77·6	81·5	− 1·5	629	−124	186	+118	39	− 4	4·23	107	− 52	4·1	+0·5	39	1016
4. MIDLAND COUNTIES ...	90	18	85·3	77·0	81·0	− 1·4	595	− 87	205	+112	39	− 4	5·05	128	− 42	3·7	+0·6	35	1017
5. ENGLAND, S.E.	85	17	86·1	78·1	82·0	− 1·7	693	−139	156	+107	34	− 9	3·63	93	−108	4·3	+0·6	40	1016
Western.																			
6. SCOTLAND, WEST ...	73	12	84·4	77·7	80·9	− 1·2	530	− 91	173	+102	46	− 3	9·10	233	− 78	3·5	+0·6	33	1016
7. ENGLAND, N.W.	84	10	84·8	78·4	81·5	− 1·3	577	−118	136	+ 86	41	− 7	6·65	168	− 70	3·6	+0·5	34	1017
8. ENGLAND, S.W.	86	15	85·8	78·6	82·1	− 1·5	670	−133	128	+ 89	40	− 9	5·91	150	−117	4·1	+0·6	38	1017
9. IRELAND, NORTH ...	75	12	85·5	78·4	81·7	− 1·8	619	− 40	133	+ 77	50	− 4	6·99	177	− 68	3·5	+0·5	33	1016
10. IRELAND, SOUTH ...	75	15	85·9	78·9	82·3	− 0·9	706	− 56	143	+ 97	43	− 6	5·38	137	−113	4·0	+0·6	37	1019
11. ENGLISH CHANNEL ...	83	32	87·3	81·8	84·5	− 1·0	903	−145	28	+ 25	46	− 6	7·17	192	− 52	4·7	+0·4	43	1018

THE YEAR 1919.—Aggregates, &c., for the Period of 47 Weeks, December 29th, 1918, to November 22nd, 1919.

0. SCOTLAND, NORTH ...	78	9	83·3	77·2	80·2	− 0·7	1826	−235	856	+ 223	208	−11	39·32	1001	−121	3·6	+0·3	28	1012
Eastern.																			
1. SCOTLAND, EAST ...	78	−6	84·1	76·6	80·2	− 0·9	2028	−254	1019	+ 281	175	−11	24·95	640	− 61	4·1	+0·2	32	1013
2. ENGLAND, N.E.	85	11	85·3	77·9	81·4	− 0·7	2456	−178	753	+ 216	175	+ 7	23·70	603	+ 39	4·1	−0·1	33	1013
3. ENGLAND, EAST ...	88	10	85·9	78·0	81·8	− 0·9	2696	−331	766	+ 204	157	− 6	21·23	542	+ 4	4·5	−0·2	36	1014
4. MIDLAND COUNTIES ...	90	9	85·9	77·7	81·7	− 0·7	2700	−218	833	+ 218	155	− 7	24·60	625	+ 26	4·1	0·0	33	1014
5. ENGLAND, S.E.	86	16	86·4	78·7	82·4	− 0·9	2955	−288	607	+ 179	150	− 9	22·87	579	− 31	4·6	−0·2	37	1015
Western.																			
6. SCOTLAND, WEST ...	83	12	84·8	77·9	81·2	− 0·7	2263	−261	712	+ 225	179	−15	33·19	845	−196	4·4	+0·4	35	1014
7. ENGLAND, N.W.	84	10	85·1	78·6	81·7	− 0·8	2488	−269	630	+ 198	163	−15	26·07	662	−126	4·2	0·0	33	1014
8. ENGLAND, S.W.	86	15	86·0	79·0	82·4	− 0·7	2802	−271	537	+ 197	164	−14	30·31	770	− 83	4·8	+0·2	38	1015
9. IRELAND, NORTH ...	78	12	85·2	78·5	81·7	− 0·6	2437	−194	570	+174	199	−14	27·97	705	−151	4·0	+0·2	32	1013
10. IRELAND, SOUTH ...	80	15	86·2	79·2	82·6	− 0·5	2857	−185	505	+ 199	185	− 4	26·91	685	−202	4·3	+0·1	35	1015
11. ENGLISH CHANNEL ...	85	26	86·8	81·4	84·0	− 0·5	3347	−291	165	+ 57	172	−13	32·35	829	+114	5·3	−0·2	42	1016
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: November 28th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PRINTED AND PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET, MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

FORTY-SECOND YEAR. *Vol. XXXVI. (New Series.)* } No. 48.

THE FORTY-EIGHTH WEEK OF 1919.

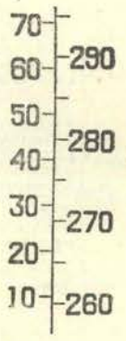
SUNDAY, NOVEMBER 23RD, TO SATURDAY, NOVEMBER 29TH, 1919.

Price 6d. Net, Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d. Net.

I.—GENERAL SUMMARY. [First published in 1878.]

On Sunday the weather was dull and very warm, and there was heavy rain in Scotland. The following three days were generally fine and bright, but with decreasing warmth, and in the last few days, which were dull, foggy and cold, there was much rain, hail, and snow, and local thunderstorms occurred in the east and south of England. The maxima on Sunday were about 288 a. in most districts, while in Ireland S. (at Killarney) 290 a. was reached. On the other hand, on Friday and Saturday at many stations over inland and eastern Britain the maxima did not exceed 275 a., the highest readings at York and Buxton on the latter day being 272 a. The mean temperature for the week was everywhere below the normal, the deficit being between 1 a. and 2 a. Precipitation was largely in excess of the normal in Scotland E., but in other Districts the divergencies were small and variable. Individual measurements of more than 20mm. in a day were recorded at Dundee and Edinburgh on the 23rd and at Marchmont on the 25th; at Ford (Argyll) the aggregate for the 23rd and 24th was 40mm. In most Districts the average duration of bright sunshine was more than the normal, the excess being nearly 1 hr. per day. On Deeside "snow lying" was reported every day of the week, the depth at Balmoral being about two inches, while each morning from the 26th to the 29th Aberdeen noted "glazed roads." A solar halo was observed at Oxford on the 25th and a parhelion at Aberdeen on the 27th.

For the autumn season (13 weeks from August 31) the average temperature has been well below the normal in all parts of the British Isles, the deficit being rather less than 1 a. over Ireland and increasing to about 1·5 a. over England. In all the southern Districts the rainfall for the same period shows a remarkable deficiency, the largest departures from the normal being 47 per cent. in England S.E., 45 per cent. in Ireland S., and 42 per cent. in England S.W. Bright sunshine was in excess of the normal everywhere.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E.† Shoeburyness.		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	11	3·0	7	5·0	16	3·7	15	2·8	9	4·1	8	3·1	14	5·0	7	5·7
North	12	7·3	13	3·7	3	2·4	4	0·9	11	5·8	17	5·2	8	5·9	17	4·0
West	15	5·3	11	7·0	18	5·2	19	3·1	13	8·9	21	7·0	24	6·7	12	6·2
East	9	3·6	10	2·6	3	1·8	2	3·0	15	4·6	4	4·4	3	6·0	11	2·9
Calm	0	—	6	—	7	—	7	—	0	—	1	—	0	—	3	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c., is printed on a separate sheet, *see below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with normal for the time of year ... Warmth ...	Deficient	Moderate	Deficient	Deficient	Moderate	Deficient	Deficient	Moderate	Deficient	Deficient	Deficient	Deficient
Rainfall ...	Moderate	Very heavy	Moderate	Moderate	Moderate	Heavy	Moderate	Light	Moderate	Heavy	Light	Heavy
Sunshine ...	Moderate	Abundant	Moderate	Moderate	Moderate	Abundant	Moderate	Moderate	Abundant	Abundant	Abundant	Abundant

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

AUTUMN. 13 weeks from August 31st, 1919. Warmth ...	2, 3, 8	3, 4, 6	2, 4, 7	2, 3. 8	2, 5, 6	2, 2, 9	4, 1, 8	3, 3, 7	2, 3, 8	4. 2, 7	4, 3, 6	2. 4, 7
Rainfall ...	3, 6. 4	5, 6, 2	4, 6, 3	1, 7, 5	1, 7, 5	1, 5, 7	2, 5, 6	2, 3, 8	1, 4, 8	1, 6, 6	1, 4, 8	2, 5, 6
Sunshine ...	6, 4, 3	8, 4, 1	6, 4, 3	4, 8, 1	6, 4, 3	7, 4, 2	7, 3, 3	8, 4, 1	7, 3, 3	7. 2, 4	7, 5, 1	7, 3, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(26415—19) Wt 162—833/512 625 12/19 H. St. G. 17/ 38

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

['TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft	
						Of Daily Max.	Of Daily Min.	Daily Mean.										Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																							
a, Islands .. a Lerwick	54	49	23rd	33	26th	42·4	35·1	38·8	- 2·4	6	1·42	36	+ 6										
p Deerness, Orkney ..	165	50	23rd	35	25, 29	42·3	36·3	39·3	—	7	1·02	26	- 1	Deerness ..	1·1	+ 0·1	16	•	•	•	•	•	•
a Stornoway	51	47	23rd	28	29th	40·3	34·4	37·4	- 3·9	6	1·26	32	- 8	Stornoway ..	0·9	- 0·1	13	•	•	•	•	•	•
a Castlebay, Barra I. ..	37	50	23rd	36	26, 27	43·3	38·7	41·0	—	4	0·57	14	—	Castlebay ..	1·5	—	21	•	•	•	•	•	•
b, Mainland. a Wick	81	51	23rd	31	25, 29	42·7	33·4	38·1	- 2·3	6	1·10	28	+ 7										
a Strathpeffer	125	49	23rd	29	25, 28	39·0	32·6	35·8	- 3·7	4	1·29	33	+ 12										
p Glencarron	500	—	—	—	—	—	—	—	—	—	—	—	—										
a Fort Augustus.. ..	68	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William	171	53	23rd	24	29th	39·4	31·0	35·2	- 5·9	4	1·53	39	- 21										
1. SCOTLAND, E.																							
a Nairn	82	53	23rd	28	29th	40·0	33·3	36·7	- 2·9	5	1·10	28	+ 15	Nairn	0·8	—	11	•	•	•	•	•	•
p Gordon Castle ..	101	54	23rd	28	28th	41·6	32·3	37·0	- 3·6	6	1·41	36	+ 21	Gordon Castle..	1·3	—	19	•	•	•	•	•	•
a Aberdeen	46	54	23rd	32	25, 26	41·3	33·7	37·5	- 3·0	5	0·95	24	+ 7	Aberdeen ..	2·8	+ 1·5	39	4	24	•	•	•	•
a Balmoral	930	50	23rd	24	29th	38·9	28·1	33·5	- 3·3	4	1·34	34	+ 15	Balmoral ..	•	•	•	7	17	•	•	•	•
p Crieff	432	57	23rd	27	29th	42·4	31·6	37·0	- 2·7	4	0·90	23	- 2	Crathes	2·5	+ 1·2	35	6	17	35·2	-4·0	40·3	-2·8
a Dundee	244	54	23rd	28	26th	41·9	31·6	36·8	- 2·9	5	1·21	31	+ 17	Dundee	3·3	—	45	6	23	35·9	•	•	•
a Leith	30	55	23rd	33	28th	43·0	38·3	40·7	- 1·1	7	1·75	44	+ 33	Leith	•	•	•	1	27	•	•	•	•
p Edinburgh	441	55	23, 24	32	28th	42·9	35·9	39·4	- 1·3	7	2·13	54	+ 42	Edinburgh ..	0·8	- 0·7	11	2	28	•	•	•	•
a West Linton	769	53	23rd	30	29th	40·6	34·0	37·3	+ 0·8	7	2·18	55	—	West Linton ..	0·7	—	10	2	29	•	•	•	•
p Marchmont	498	56	23rd	28	25th	42·3	34·1	38·2	- 1·0	6	2·40	61	+ 45	Marchmont .	1·7	+ 0·4	23	•	•	•	•	•	•
6. a, SCOTLAND, W.																							
a Ford (Argyll)	149	51	23rd	24	28th	42·6	32·0	37·3	—	3	1·63	41	—	Ford (Argyll) ..	•	•	•	5	14	38·7	—	42·8	—
p Glasgow Observatory	180	54	23rd	29	28th	42·3	35·4	38·9	- 2·4	4	1·07	27	+ 6	Glasgow.. ..	0·9	+ 0·3	12	3	18	•	•	•	•
p Rothesay	200	52	23rd	31	28th	42·0	35·0	38·5	- 3·8	4	1·16	29	+ 1	Rothesay ..	1·4	—	19	4	24	39·1	—	43·0	-2·3
a Kilmarnock	90	55	23rd	22	28th	42·0	34·6	38·3	- 2·1	5	1·57	40	+ 19	Kilmarnock ..	1·9	—	14	•	•	39·2	—	43·4	—
a Colmonell	170	55	23rd	25	28, 29	44·3	34·4	39·4	- 2·7	5	0·75	19	- 10	Colmonell ..	•	•	•	4	21	•	•	•	•
p Cally, Gatehouse ..	120	53	23rd	26	29th	44·1	34·1	39·1	- 1·8	4	0·29	7	- 22	Dumfries ..	1·9	—	25	4	24	40·0	+0·3	43·0	-1·3
p Dumfries	180	55	23rd	30	28th	43·7	36·0	39·9	- 0·9	4	0·71	18	- 2	Eskdalemuir ..	1·4	—	19	1	21	•	•	•	•
a Eskdalemuir	794	53	23rd	28	28th	40·1	33·7	36·9	—	6	1·66	42	—										
b, I.OF MAN p Douglas	277	54	23rd	32	29th	44·6	38·0	41·3	- 2·4	3	0·60	15	- 12	Douglas	1·9	+ 0·4	25	1	26	•	•	•	•
2. ENGLAND, N.E																							
a North .. a Alnwick Castle ..	210	55	23rd	30	28th	43·4	35·4	39·4	- 1·4	7	1·41	36	+ 16										
a Tynemouth	118	57	23rd	32	29th	43·4	35·6	39·5	- 2·0	5	1·18	30	+ 15	Cockle Park ..	1·5	- 0·2	20	4	24	38·0	-0·2	41·9	-1·0
p Durham	336	56	23rd	25	29th	44·1	34·4	39·3	- 0·8	7	1·10	28	+ 14	Durham ..	1·0	- 0·5	13	5	22	•	•	•	•
p Rounton	249	56	23rd	24	29th	43·1	34·3	38·7	- 1·3	6	0·90	23	+ 8	Rounton ..	•	•	•	4	16	40·1	•	•	•
a West Witton	605	54	23rd	21	29th	40·6	34·9	37·8	—	5	1·21	31	—	West Witton ..	•	•	•	4	21	39·5	—	42·1	—
p Scarborough	100	—	—	—	—	—	—	—	—	6	0·68	17	+ 1	Scarborough† ..	1·1	- 0·2	14	•	•	•	•	•	•
p York	56	58	23rd	24	29th	43·7	35·7	39·7	- 1·4	6	0·33	8	- 7	York	0·5	- 0·5	6	—	—	41·6	-0·7	45·0	-1·8
b, South .. a Spurn Head	26	54	23rd	28	29th	43·0	35·6	39·3	- 3·1	5	0·55	14	+ 1	Spurn Head ..	•	•	•	•	•	•	•	•	•
a Lincoln	58	53	23rd	27	29th	41·6	34·7	38·2	- 2·6	3	0·24	6	- 8	Lincoln	•	•	•	3	27	40·5	+0·3	44·2	-2·1
a Fulbeck	180	56	23rd	27	29th	41·0	34·3	37·7	- 3·2	6	0·42	11	- 4	Fulbeck	1·8	+ 0·3	23	•	•	—	—	—	—
														Skegness ..	—	—	—	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	59	23rd	24	27th	46·0	31·0	38·5	- 3·4	3	0·38	10	- 3	Cromer	2·2	+ 0·7	28	•	•	•	•	•	•
a Little Massingham ..	280	55	23rd	27	28th	42·0	31·6	36·8	- 3·6	5	0·26	7	- 10	Lit. Massingham	2·0	+ 0·7	25	•	•	•	•	•	•
a Yarmouth	13	58	23rd	25	28th	45·1	33·6	39·4	- 2·4	3	0·35	9	- 6	Yarmouth ..	2·5	—	31	4	28	42·0	+0·1	45·0	-2·3
a Norwich	93	56	23rd	27	27th	42·6	34·4	38·5	- 2·4	4	0·82	21	+ 5	Norwich ..	2·3	—	29	4	22	38·7	•	•	•
a Geldeston	37	59	23rd	22	27th	45·4	32·3	38·9	- 2·8	3	0·42	11	- 4	Geldeston ..	2·3	+ 0·7	29	•	•	•	•	•	•
p Cambridge	41	58	23rd	24	27th	44·7	33·3	39·0	- 2·0	2	0·11	3	- 9	Cambridge ..	2·2	+ 0·7	28	3	18	41·3	-0·8	46·4	-1·0
a Clacton-on-Sea ..	54	54	23rd	30	28th	45·1	36·0	40·6	- 1·3	2	0·26	7	- 5	Clacton	1·7	0·0	21	3	25	41·4	-3·1	46·4	-2·2
a Rothamsted	424	55	23rd	23	27th	41·7	32·1	36·9	- 3·9	4	0·53	13	- 4	Rothamsted ..	1·7	+ 0·2	21	4	19	40·8	•	•	•
p Tottenham	51	57	23rd	26	27th	45·6	37·0	41·3	—	3	0·41	10	—	Tottenham ..	1·1	—	14	2	25	•	•	47·2	-1·5
														S'thend-on-Sea	2·0	—	25	4	27	41·4	-1·5	—	—
4. MIDLAND COUNTIES.																							
a North .. a Harrogate	479	54	23rd	25	29th	41·7	34·7	38·2	- 1·8	5	0·31	8	- 9	Harrogate ..	0·3	- 1·1	4	3	23	41·1	-0·1	43·1	-0·9
p Sheffield	429	57	23rd	28	28, 29	43·4	36·4	39·9	—	5	0·35	9	—	Sheffield.. ..	0·7	- 0·6	9	2	23	40·7	-0·6	44·6	-1·9
p Buxton	987	53	23rd	25	29th	39·6	34·0	36·8	—	4	0·61	16	- 16	Buxton	1·0	—	13	2	28	38·4	-0·8	42·2	-3·1
b, East .. a Worksop	56	57	23rd	28	28, 29	42·7	34·4	38·6	- 2·3	5	0·14	4	- 9	Worksop ..	1·2	0·0	15	5	22	40·7	—	43·6	—
a Nottingham	82	58	23rd	30	29th	42·4	34·4	38·4	- 2·6	6	0·34	9	- 4	Nottingham ..	0·9	- 0·2	11	5	24	39·3	-0·7	42·1	-2·3
p Birmingham, Edgbsn.	535	56	23rd	28	29th	43·1	35·9	39·5	- 1·6	5	0·38	10	- 5	Birmingham ..	2·1	+ 1·0	26	3	26	42·1	-0·3	45·6	-2·0
a Raunds	203	59	23rd	27	28th	44·0	32·6	38·3	- 1·9	3	0·33	8	- 6	Raunds	2·5	—	31	5	20	41·4	—	46·2	—
p Oxford	208	56	24th	26	27, 28	43·9	34·4	39·2	- 2·5	3	0·18	5	- 9	Oxford	2·2	+ 0·6	27	3	21	•	•	•	•
														Malvern ..	2·1	—	26	5	26	41·3	—	44·8	•
c, West .. a Cheadle (N. Staffs.) ..	646	55	23rd	29	29th	41·6	32·9	37·3	- 2·6	3	0·31	8	- 11	Cheadle	•	•	•	5	28	•	•	•	•
p Tenbury	313	57	23, 24	24	29th	44·7	35·7	40·2	- 1·3	3	0·30	8	- 5	Tenbury	•	•	•	5	20	41·4	—	—	—
p Ross-on-Wye	201	57	23rd	23	29th	45·0	35·1	40·1	- 1·7	5	0·62	16	0	Ross-on-Wye ..	2·0	—	25	4	22	—	—	—	—
a Clifton	226	55	23rd	29	28th	42·6	36·6	39·6	- 3·5	5	0·93	24	0	Clifton	1·5	—	19	?3	28	•	•	•	•
5. ENGLAND, S.E.																							
														Worthing ..	3·4	+ 1·5	41	4	24	42·8	-1·1	47·5	-1·5
a Marlborough	424	54	23rd	27	27th	42·1	33·1	37·6	- 2·9	4	0·48	12	- 6	Marlborough ..	2·0	+ 0·7	25	5	22	41·5	—	46·7	—
p Salisbury (Wilton) ..	180	56	23rd	27	26th	44·6	33·9	39·3	- 2·0	4	0·73	19	- 2	Salisbury ..	•	•	•	5	21	42·2	—	•	•
a Wisley, Surrey ..	150	56	23rd	27	27th	45·0	34·7	39·9	- 1·7	6	0·63	16	+ 3	Wisley	2·2	+ 0·8	27	4	20	41·5	-1·1	45·6	-1·7
a Tunbridge Wells ..	354	54	23rd	28	29th	46·7	34·1	40·4	- 1·5	6	1·03	26	+ 7	Tunbridge Wells	2·2	+ 0·6	27	4	21	43·2	+1·7	46·9	—
a Margate	51	58	23rd	34	26, 27	46·1	38·1	42·1	- 1·3	5	0·81	21	+ 8	Margate	2·2	+ 0·7	27	3	26	43·5	-1·4	47·0	-0·8
a Dungeness	21	52	23rd	32	28th	47·4	38·1	42·8	- 0·9	7	1·76	45	+ 30	Folkestone ..	1·9	—	23	•	•	•	•	47·0	—
p St. Leonards	178	—	—	—	—	—	—	—	—	—	—	—	—	St. Leonards ..	2·5	+ 0·6	30	—	—	—	—	—	—
p Southampton	64	56	23rd	30	26, 29	46·1	36·0	41·1	- 2·5	4	1·01	26	+ 7	Southampton ..	1·9	+ 0·3	23	5	19	•	•	•	•
a Ventnor	59	53	23, 24	34	28th	48·1	39·4	43·8	- 1·9	6	1·12	28	+ 10	Ventnor	2·6	+ 0·7	31	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	57	23rd	26	27th	44·6	34·7	39·7	- 2·5	6	0·37	9	- 3	Richmond ..	1·8	+ 0·5	22	4	22	40·6	-1·8	45·7	-2·1
a Westminster	27	57	23rd	31	27th	46·2	36·8	41·5	- 1·8	4	0·29	7	- 5	Westminster ..	1·5	+ 0·8	19	4	24	•	•	•	•
ag Greenwich	149	58	23rd	27	27th	45·3	35·4	40·4	- 2·2	4	0·23	6	- 7	Greenwich ..	2·0	+ 0·7	25	4	20	•	•	•	•
a Hampstead	450	54	23rd	25	27th	43·9	34·9	39·4	—	5	0·26	7	—	Hampstead ..	1·7	—	21	5	18	•	•	•	•
ag Camden Square ..	110	56	23rd	27	27th	44·4	35·6	40·0	- 2·3	4	0·29	7	- 6	Camden Square	—	—	—	4	24	•	•	•	•
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	54	23rd	28	28th	41·9	35·6	38·8	- 2·0	6	0·73	19	- 8	Aspatria.. ..	0·7	- 0·7	9	3	23	41·2	-0·2	44·3	-2·3
p Newton Rigg	559	56	24th	26	29th	42·7	33·1	37·9	- 1·3	4	0·84	21	- 3	Newton Rigg ..	1·0	- 0·3	13	5	18	41·8	+1·2	43·7	-1·0
p Stonyhurst	375	55	23rd	27	29th	42·4	36·3	39·4	- 1·6	4	0·69	18	- 11	Stonyhurst ..	0·9	- 0·2	12	3	25	•	•	•	•
p Blackpool	66	53	23rd	29	29th	43·4	37·6	40·5	- 2·6	4	0·27	7	- 14	Blackpool ..	1·2	- 0·2	16	4	23	43·0	—	46·5	—
a Southport	37	55	23rd	30	29th	42·6	37·0	39·8	- 2·3	5	0·48	12	- 8	Southport ..	1·2	- 0·1	16	4	24	39·0	-0·9	43·5	-2·1
														Hoylake ..	1·8	+ 0·3	23	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	59	23rd	30	29th	43·9	37·0	40·5	- 2·3	3	0·12	3	- 13	Liverpool ..	2·0	—	25	4	27	•	•	•	•
a Hawarden Bridge ..	22	58	23rd	33	29th	43·3	37·9	40·6	- 2·7	4	0·70	18	+ 4	Manchester(City)	0·6	+ 0·2	8	2	29	39·3	-1·5	43·9	-3·2
a Manchester (Whit. Pk.)	125	58	23rd	27	29th	45·0	36·7	40·9	- 1·2	4	0·38	10	- 8	Whitworth Park	1·0	+ 0·5	13	•	•	•	•	•	•
b. NORTH WALES.																							
p Llandudno	16	58	23rd	26	29th	45·7	38·3	42·0	- 2·6	5	0·33	9	- 11	Llandudno ..	1·4	- 0·2	18	•	•	•	•	•	•
a Holyhead	15	55	23rd	31	29th	45·7	39·6	42·7	- 2·4	6	0·55	14	- 12	Holyhead ..	1·7	—	22	1	22	•	•	•	•
a Beddgelert	309	—	—	—	—	—	—	—	—	—	—	—	—										
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.
3. *a*, SOUTH WALES.																							
a Aberystwyth	59	50	23rd	30	29th	44·4	38·7	41·6	—	3	0·29	7	—	Aberystwyth ..	3·1	+ 1·5	39	*	*	*	*	*	*
a Rhayader	757	54	23rd	30	29th	42·1	36·9	39·5	—	5	0·78	20	—	Rhayader ..	2·2	—	28	3	29	*	*	*	*
a St. Ann's Head	149	54	23rd	35	29th	45·4	41·6	43·5	- 2·3	5	0·21	5	- 19	St. Ann's Head ..	3·3	+ 1·7	41	*	*	*	*	*	*
p Cardiff	202	54	24th	28	28th	44·3	35·7	40·0	- 2·1	5	0·77	20	- 6	Cardiff	1·5	—	19	4	25	41·6	-1·1	45·9	-1·8
b, ENGLAND, S.W.																							
a Bath	66	57	23rd	27	28th	44·9	34·9	39·9	- 2·3	4	0·70	18	0	Bath	*	*	*	—	—	42·4	-1·6	46·5	-2·5
a Shaftesbury	722	53	23rd	29	28th	42·1	34·1	38·1	- 3·2	3	0·83	21	+ 2	Shaftesbury ..	*	*	*	*	*	42·2	—	46·0	—
a Arlington	613	53	23rd	27	29th	42·7	35·4	39·1	- 3·3	6	0·81	21	- 14										
a Newquay	190	54	23rd	28	28th	47·4	39·3	43·4	- 3·1	6	0·52	13	- 10	Newquay ..	2·0	+ 0·1	24	*	*	45·8	—	49·7	—
a Cullompton	202	56	23rd	27	28th	44·1	34·7	39·4	- 3·2	5	0·65	17	- 5	Cullompton ..	1·5	0·0	18	5	20	44·1	*	*	*
a Portland Bill	12	55	24th	33	28th	47·9	40·7	44·3	- 1·9	6	1·06	27	+ 11	Weymouth ..	2·0	—	24	*	*	*	*	*	*
p Plymouth	116	55	23rd	28	28th	47·0	38·6	42·8	- 2·5	5	1·00	25	+ 1	Plymouth ..	3·1	+ 1·3	37	1	23	43·8	-1·9	47·9	—
a Falmouth	167	55	23rd	30	28, 29	48·0	37·3	42·7	- 3·5	5	0·61	15	- 16	Falmouth ..	2·7	+ 0·7	33	2	22	45·5	—	49·5	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	52	23rd	34	28th	46·0	39·0	42·5	- 1·2	4	1·54	39	+ 21	Malin Head ..	1·6	—	22	*	*	*	*	*	*
{ *a* Blacksod Point ..	37	52	23rd	27	29th	44·0	36·6	40·3	- 4·6	5	1·47	37	+ 6	Markree Castle	2·2	+ 0·9	29	2	18	42·2	-1·3	46·7	-1·6
{ *p* Markree Castle ..	122	56	23rd	20	29th	44·9	31·3	38·1	- 3·6	4	2·06	52	+ 27										
b, East .. { *p* Armagh	196	56	23rd	24	28th	42·7	31·4	37·1	- 4·5	6	0·67	17	+ 1	Armagh	2·6	+ 1·2	34	4	15	41·3	-1·1	45·0	-1·8
{ *a* Donaghadee	39	58	23rd	33	28th	45·7	38·1	41·9	- 1·2	6	0·71	18	+ 1										
10. IRELAND, S.																							
p Dublin, City	47	58	23rd	29	29th	45·6	36·7	41·2	- 2·6	6	0·95	24	+ 10	Trinity Coll. ..	*	*	*	—	—	—	—	—	—
a Birr Castle	175	57	23rd	22	29th	44·1	34·0	39·1	- 2·5	4	0·91	23	+ 6	Phœnix Park ..	1·9	+ 0·2	24	5	17	*	*	*	*
a Kilkenny	195	58	23rd	24	28th	44·6	34·3	39·5	- 2·5	5	0·16	4	- 14	Dublin City ..	*	*	*	3	26	*	*	*	*
a Waterford	137	55	23rd	27	27th	44·7	34·7	39·7	- 4·0	3	0·19	5	- 17	Birr Castle ..	2·7	+ 1·1	34	4	17	*	*	*	*
p Seskin, Carrick-on-Suir	535	59	23rd	27	28th	42·7	34·9	38·8	—	5	0·34	9	—	Seskin	2·1	—	26	3	23	*	*	*	*
a Cahir	198	56	23rd	24	28th	44·7	35·0	39·9	- 2·4	5	0·60	15	—										
a Foynes	50	57	23rd	29	28th	45·3	37·4	41·4	- 2·4	2	0·63	16	- 8										
a Cahirciveen (Val. Obs.)	30	56	23rd	30	29th	47·0	39·9	43·5	- 2·7	6	0·79	20	- 13	Cahirciveen ..	2·8	+ 1·3	35	3	25	*	*	*	*
a Killarney	174	63	23rd	28	28th	45·4	37·4	41·4	- 3·9	6	0·67	17	- 18	Ballinacurra ..	2·5	+ 1·0	31	*	*	*	*	*	*
a Roche's Point	32	56	23rd	30	28, 29	46·3	37·9	42·1	- 3·5	6	0·56	14	- 12										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	53	23, 24	36	28, 29	48·3	41·7	45·0	- 3·2	6	0·98	25	+ 2	Scilly	3·0	+ 1·1	36	*	*	*	*	*	*
a Jersey, St. Aubins ..	25	55	23rd	31	28th	49·9	41·1	45·5	- 1·2	6	1·03	26	+ 1	St. Heliers ..	2·7	+ 0·8	32	*	*	*	*	*	*
a Guernsey (Villa Carey)	180	56	23rd	34	28th	49·0	41·3	45·2	- 1·5	7	2·08	53	+ 26	Guernsey† ..	2·4	+ 0·7	29	3	21	46·6	-0 9	49·9	-1·4

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, November 29th, 1919.

DISTRICT AND STATION	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m./s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	22, 23, 25 to 27	28	72	58	10	0	259	16	23	6	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	—	61	39	68	236	5	24	19	11	26	22	45
Aberdeen	153	105	52	—	—	—	—	2	134	32	0	23	7	26	21	14	26	20	55
Edinburgh	485	39	31	—	—	23, 24	13	59	62	34	0	214	13	23	21	23	23	21	25
6. SCOTLAND, W.																			
Eskdalemuir	825	59	22	23	3	23, 24, 27	25	63	55	22	0	250	18	23	11	25	23	22	5
Paisley	188	81	15	—	—	23	1	25	82	60	0	191	11	23	20	24	23	19	55
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	13	62	69	24	315	11	24	1	19	24	0	35
South Shields	72	61	12	—	—	23, 24	2	47	92	27	0	281	14	24	1	25	24	0	40
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Gorleston	52	42	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Shoeburyness	103	90	‡	—	—	23, 24, 29	6	60	58	44	0	225	14	24	2	22	24	3	5
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	23, 24	4	36	74	54	0	225	14	24	1	25	24	1	20
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	24, 29	3	34	96	35	0	—	12	24	2	21	29	9	45
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument out of adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Richmond (Kew Obs.)..	82	65	22	—	—	23, 24	4	31	76	57	0	214	11	24	1	23	24	2	50
7. ENGLAND, N.W.																			
Carnforth	240	56	23	—	—	—	—	34	43	91	0	236	11	24	3	20	23	22	35
Fleetwood (Cup Anr.) ..	109	44	—	24	2	23 to 25	15	92	57	2	0	293	21	24	1	—	—	—	—
Southport	80	62	48	23, 24	2	23 to 25	40	58	66	2	0	247	18	23	24	29	24	0	5
Holyhead	60	40	‡	23	2	23, 24, 26 27	35	79	45	7	0	270	18	23	23	24	23	23	15
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	21	23	3	23, 24	18	60	60	12	15	225	19	23	21	27	23	22	25
Plymouth	185	88	2	—	—	23	1	25	98	44	0	—	12	23	22	18	23	21	55
Lyme Regis	556	61	‡‡	—	—	23, 24	4	43	66	55	0	—	13	24	1	20	24	0	25
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	23	1	23 to 27	35	96	33	3	0	281	17	23	23	—	—	—	—
Quilty	100	40	‡‡‡	23	1	23 to 25, 29	76	42	46	3	0	—	19	23	20	32	23	19	40
Cahirciveen (Val. Obs.)	98	41	‡‡‡	23	1	23, 24, 26	13	90	39	25	0	210	18	23	18	30	23	17	55
Weaver Pt.	160	30	‡	23	2	23, 26	9	96	59	2	0	—	20	23	19	30	23	19	25
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	23, 25,	9	96	43	20	0	270	13	23	22	23	24	21	35

† More exactly the ranges adopted for this classification are > 17·2, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory

* Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FORTY-EIGHTH WEEK of 1919—November 23rd to November 29th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Mean Pressure at M.S.L.
	At any "D.-V." Station.		Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ..	53	24	77·9	73·7	75·8	− 1·8	0	− 12	34	+10	5	0	1·32	34	− 5	1·0	−0·1	14	999
Eastern.																			
1. SCOTLAND, EAST ...	57	24	78·2	73·7	75·9	− 1·3	0	− 12	34	+ 4	6	+ 2	1·50	38	+ 21	2·0	+0·8	28	998
2. ENGLAND, N.E.	58	24	79·1	74·7	76·9	− 1·3	3	− 12	25	+ 5	6	+ 2	0·76	19	+ 4	1·2	−0·2	15	998
3. ENGLAND, EAST ...	59	22	79·8	73·8	76·8	− 1·4	6	− 11	32	+11	3	− 1	0·39	10	− 5	2·0	+0·5	25	1001
4. MIDLAND COUNTIES ...	59	23	79·2	74·5	76·9	− 1·0	8	− 13	27	+ 3	4	0	0·38	10	− 7	1·4	0·0	17	1001
5. ENGLAND, S.E.	58	26	80·6	75·1	77·9	− 1·2	10	− 12	24	+ 9	5	+ 1	0·88	22	+ 4	2·3	+0·7	28	1002
Western.																			
6. SCOTLAND, WEST ...	55	22	79·2	74·6	76·9	− 1·7	3	− 14	27	+ 9	4	− 1	0·97	25	− 5	1·4	+0·3	18	999
7. ENGLAND, N.W.	59	26	79·5	75·7	77·6	− 1·2	5	− 14	19	+ 5	5	0	0·52	13	− 11	1·2	−0·1	15	1000
8. ENGLAND, S.W.	57	27	80·2	75·8	78·0	− 1·6	8	− 17	19	+ 7	5	0	0·74	19	− 7	2·5	+0·9	31	1002
9. IRELAND, NORTH ...	58	20	80·0	74·7	77·4	− 1·5	7	− 13	26	+11	5	0	1·23	31	+ 9	2·4	+1·0	31	1000
10. IRELAND, SOUTH ...	63	22	80·4	75·4	77·9	− 1·7	9	− 18	22	+ 9	5	0	0·61	15	− 9	2·5	+0·9	31	1003
11. ENGLISH CHANNEL ...	56	31	82·5	78·2	80·4	− 1·2	25	− 15	2	0	6	+ 1	1·36	35	+ 10	2·7	+0·9	32	1004

THE SEASON (Autumn).—Aggregates, &c., for the Period of 13 Weeks, August 31st to November 29th, 1919.

0. SCOTLAND, NORTH ...	71	9	82·8	77·1	79·9	− 1·1	437	− 94	210	+ 92	66	+ 3	14·64	372	+ 3	2·8	+0·5	27	1013
Eastern.																			
1. SCOTLAND, EAST ...	75	−6	83·3	76·3	79·7	− 1·3	464	− 92	266	+115	59	+ 7	10·19	260	+ 43	3·3	+0·5	32	1013
2. ENGLAND, N.E.	85	15	84·7	77·2	80·8	− 1·3	578	− 94	200	+115	55	+ 7	7·86	200	+ 23	3·5	+0·4	34	1014
3. ENGLAND, EAST ...	88	22	85·3	77·3	81·2	− 1·5	635	−135	218	+129	42	− 5	4·62	117	− 57	4·0	+0·6	38	1015
4. MIDLAND COUNTIES ...	90	18	84·8	76·8	80·7	− 1·4	598	−100	232	+115	43	− 4	5·43	138	− 49	3·5	+0·5	34	1015
5. ENGLAND, S.E.	85	17	85·6	77·9	81·7	− 1·6	703	−151	180	+116	39	− 8	4·51	115	−104	4·1	+0·5	39	1015
Western.																			
6. SCOTLAND, WEST ...	73	12	84·0	77·5	80·6	− 1·2	533	−105	200	+111	50	− 4	10·07	258	− 83	3·4	+0·6	33	1015
7. ENGLAND, N.W.	84	10	84·4	78·2	81·2	− 1·3	582	−132	155	+ 91	46	− 7	7·17	181	− 81	3·4	+0·5	33	1015
8. ENGLAND, S.W.	86	15	85·3	78·4	81·8	− 1·5	678	−150	147	+ 96	45	− 9	6·65	169	−124	4·0	+0·6	38	1016
9. IRELAND, NORTH ...	75	12	85·1	78·1	81·4	− 0·8	626	− 53	159	+ 88	55	− 4	8·22	208	− 59	3·4	+0·6	33	1015
10. IRELAND, SOUTH ...	75	15	85·5	78·6	82·0	− 0·9	715	− 74	165	+106	48	− 6	5·99	152	−122	3·9	+0·7	37	1017
11. ENGLISH CHANNEL ...	83	31	86·9	81·5	84·2	− 1·0	928	−160	30	+ 25	52	− 5	8·53	227	− 42	4·5	+0·4	42	1017

THE YEAR 1919.—Aggregates, &c., for the Period of 48 Weeks, December 29th, 1918, to November 29th, 1919.

0. SCOTLAND, NORTH ...	78	9	83·2	77·2	80·1	− 0·8	1826	−247	890	+ 233	213	−11	40·64	1035	−126	3·5	+0·2	28	1012
Eastern.																			
1. SCOTLAND, EAST ...	78	−6	84·0	76·5	80·1	− 0·9	2028	−266	1053	+ 285	181	− 9	26·45	678	− 40	4·0	+0·1	32	1013
2. ENGLAND, N.E.	85	11	85·1	77·8	81·3	− 0·7	2459	−190	778	+ 221	181	+ 9	24·46	622	+ 43	4·0	−0·2	32	1013
3. ENGLAND, EAST ...	88	10	85·8	77·9	81·7	− 0·9	2702	−342	798	+ 215	160	− 7	21·62	552	− 1	4·4	−0·2	35	1014
4. MIDLAND COUNTIES ...	90	9	85·8	77·7	81·6	− 0·7	2703	−231	860	+ 221	159	− 7	24·98	635	+ 19	4·1	0·0	33	1014
5. ENGLAND, S.E.	86	16	86·3	78·7	82·3	− 0·9	2965	−300	631	+ 188	155	− 8	23·75	601	− 27	4·6	−0·2	37	1014
Western.																			
6. SCOTLAND, WEST ...	83	12	84·7	77·8	81·1	− 0·8	2266	−275	739	+ 234	183	−16	34·16	870	−201	4·3	+0·3	34	1013
7. ENGLAND, N.W.	84	10	85·0	78·6	81·6	− 0·8	2493	−283	649	+ 203	168	−15	26·59	675	−137	4·2	+0·1	33	1014
8. ENGLAND, S.W.	86	15	85·9	79·0	82·3	− 0·8	2810	−288	556	+ 204	169	−14	31·05	789	− 90	4·8	+0·3	38	1015
9. IRELAND, NORTH ...	78	12	85·1	78·4	81·6	− 0·6	2444	−207	596	+ 185	204	−14	29·20	736	−142	4·0	+0·3	32	1013
10. IRELAND, SOUTH ...	80	15	86·1	79·1	82·5	− 0·6	2866	−203	527	+ 208	190	− 4	27·52	700	−211	4·3	+0·1	34	1015
11. ENGLISH CHANNEL ...	85	26	86·7	81·3	83·9	− 0·5	3372	−306	167	+ 57	178	−12	33·71	864	+124	5·2	−0·2	42	1016
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: December 5th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PRINTED AND PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET, MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 49.

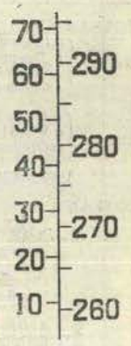
THE FORTY-NINTH WEEK OF 1919.

SUNDAY, NOVEMBER 30TH, TO SATURDAY, DECEMBER 6TH, 1919.

Price 6d. Net, Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d. Net.

I.—GENERAL SUMMARY. [First published in 1878.]

The week opened with fine, frosty weather in all parts of Great Britain, but on the west coast of Ireland a change to milder conditions was already in progress. The depression which was then advancing, and others which followed it, maintained very disturbed weather in all districts till the close of the week. "Line-squalls" passed across the country on two or three occasions, gales of short duration being accompanied by thunder, lightning, hail and snow; the storm of Tuesday morning was very severe over S.E. England, newspapers reporting considerable damage to buildings; at Kew Observatory a gust of 30 m/s. was recorded at 9h. 35m. In Scotland E. the mean temperature for the week was about normal, but in all other Districts it was above, the divergence being about 1a. The lowest temperatures occurred almost invariably on Sunday morning, when the thermometer in the screen went below 266 a in several places and as low as 263 a at Balmoral and Hereford, the grass thermometers at those two stations registering 260a. In nearly all Districts Wednesday was the warmest day, readings of 285 a being general, the actual highest being 287 a at Killarney. Precipitation (rain, snow, sleet and hail) occurred in most Districts on each of the seven days, the total fall being in excess of the normal except in Scotland N. and E. where it was about the average, and in England N.E. where there was a small deficit. Stations with measurements of 20mm. and more in a day were very numerous; some of the largest measurements were 28mm. at Oxford, 33mm. at Salisbury, 37mm. at Southampton, and 38mm. at Rothamsted, all on the 1st, while the aggregate for the three days 1st–3rd at Arlington Court, Barnstaple, was 72mm. The daily amounts of bright sunshine were a little less than the normal in most English Districts, but in Scotland and Ireland there was a slight excess. A solar halo was observed at Oxford on December 6th and lunar halos at Shoeburyness on November 30th, at Oxford, Tenbury, Ross-on-Wye and South Farnborough on December 1st, at Aberdeen on the 3rd and 4th, at Bognor on the 5th and 6th and again at Oxford on the 6th.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E.† Shoeburyness.		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	20	5·7	15	4·2	21	5·0	21	3·6	15	5·4	11	5·1	26	6·0	22	4·9
North	1	1·8	2	2·6	3	1·5	2	1·9	10	2·9	8	4·6	0	—	5	4·0
West	16	6·9	23	8·0	27	5·6	20	3·8	25	9·2	24	10·3	23	9·6	26	7·3
East	6	3·2	1	2·5	0	—	1	0·9	1	2·3	3	2·8	3	2·1	2	4·8
Calm	4	—	3	—	0	—	3	—	0	—	0	—	1	—	0	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Unusual	Unusual	Unusual	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Moderate	Moderate	Moderate	Very heavy	Very heavy	Very heavy	Very heavy	Moderate	Very heavy	Very heavy	Heavy	Heavy
	Sunshine ...	Very abundant	Abundant	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Abundant	Moderate	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

WINTER. 1 week from Nov. 30th, 1919.	Warmth ...	0, 1, 0	0, 1, 0	0, 1, 0	1, 0, 0	1, 0, 0	1, 0, 0	0, 1, 0	1, 0, 0	1, 0, 0	1, 0, 0	1, 0, 0	1, 0, 0
	Rainfall ...	0, 1, 0	0, 1, 0	0, 1, 0	1, 0, 0	1, 0, 0	1, 0, 0	1, 0, 0	0, 1, 0	1, 0, 0	1, 0, 0	1, 0, 0	1, 0, 0
	Sunshine ...	1, 0, 0	1, 0, 0	0, 1, 0	0, 1, 0	0, 1, 0	0, 1, 0	0, 1, 0	0, 1, 0	0, 1, 0	1, 0, 0	0, 1, 0	0, 0, 1

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(26521—19) Wt 162—833/512 625 12/19 H. St. G. 17/ 36

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft Mean.	Earth 4 ft Deviation from Average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																							
a, Islands ..	54	45	1, 3, 4	33	30th	44·0	36·9	40·6	+ 0·7	6	1·14	29	- 3										
a, Islands ..	165	45	5th	35	30, 6	43·3	37·4	40·5	—	6	1·26	32	+ 3	Deerness ..	1·2	+ 0·4	19	*	*	*	*	*	*
a, Islands ..	31	47	5th	30	30th	44·7	36·1	40·6	+ 0·7	7	1·73	44	+ 1	Stornoway ..	1·5	+ 0·6	23	*	*	*	*	*	*
a, Islands ..	37	50	5th	35	30th	47·6	39·3	43·6	—	7	1·34	34	—	Castlebay ..	1·3	—	19						
b, Mainland. a Wick	81	44	2nd	30	30 h	42·7	34·1	38·6	- 0·3	5	0·91	23	+ 1										
b, Mainland. a Strathpeffer	125	46	3rd	28	30th	43·1	33·1	38·3	+ 0·4	5	1·32	34	+ 11										
b, Mainland. p Glencarron	500	—	—	—	—	—	—	—	—	—	—	—	—										
b, Mainland. a Fort Augustus	6	—	—	—	—	—	—	—	—	—	—	—	—										
b, Mainland. p Fort William	171	49	3rd	20	30th	45·1	34·6	40 1	+ 0·5	7	3·01	76	+ 9										
1. SCOTLAND, E.																							
a Nairn	82	45	2, 3, 5	29	1st	42·9	33·6	38·4	+ 0·3	6	0·75	19	+ 1	Nairn ..	1·4	—	21	*	*	*	*	*	*
p Gordon Castle	101	46	3, 5	30	30th	42·7	35·3	39·2	+ 0·1	5	0·36	9	- 12	Gordon Castle..	2·0	—	30	*	*	*	*	*	*
a Aberdeen	46	47	3rd	29	1st	43·1	35·1	39·3	+ 0·3	4	0·59	15	- 10	Aberdeen ..	2·1	+ 0·7	31	3	22	*	*	40·7	- 2·5
a Balmoral	930	42	1, 3, 5	15	30th	40·1	29·4	35·0	- 0·3	6	0·03	24	- 3	Balmoral ..	*	*	*	4	9	*	*	*	*
p Crieff	432	47	3rd	24	30th	42 4	32·4	37·6	- 0·5	6	1·63	41	+ 6	Crathes ..	2·2	+ 0·8	32	6	13	34·4	- 4·1	39·4	- 2·6
a Dundee	244	46	2, 3	25	1st	42·7	30·3	36·8	- 1·3	6	0·62	16	- 4	Dundee ..	1·8	—	26	7	20	34·4	*	*	*
a Leith	30	52	3rd	29	30, 1	46·1	35·1	40·8	+ 0·5	5	0·63	16	0	Leith ..	*	*	*	2	20	*	*	*	*
p Edinburgh	441	49	3, 5	30	30th	43·6	36·0	40·0	+ 0·8	6	0·53	14	- 3	Edinburgh ..	1·5	- 0·1	21	2	24	*	*	*	*
a West Linton	769	47	2, 3, 5	18	30th	42·4	28·9	35·9	+ 0·8	4	1·89	48	—	West Linton ..	0·9	—	13	6	15	*	*	*	*
p Marchmont	98	48	3rd	25	30th	42·9	31·1	37·2	- 0·4	6	0·77	20	- 2	Marchmont ..	0·9	- 0·4	13	*	*	*	*	*	*
6. a, SCOTLAND, W.																							
a Ford (Argyll)	149	50	2, 5	21	30th	46·6	34·0	40·6	—	7	3·73	95	—	Ford (Argyll) ..	*	*	*	2	12	37·2	—	41·9	—
p Glasgow Observatory	180	49	3, 5	27	30th	44·7	37·0	41·0	+ 0·9	7	1·35	34	+ 6	Glasgow.. ..	0·8	+ 0·2	11	1	17	*	*	*	*
p Rothesay	200	49	3, 5	29	30th	45 0	36 4	40·9	- 0·1	7	3·52	89	+ 51	Rothesay ..	1·4	—	20	1	24	38·0	—	42·4	- 2·3
a Kilmarnock	90	50	3rd	26	30th	46·6	35·7	41·4	+ 2·1	7	2·22	56	+ 27	Kilmarnock ..	1·3	—	18	*	*	38·3	—	43·0	—
a Colmonell	170	51	3rd	28	30th	47·9	36·7	42·5	+ 1·5	7	2·82	72	+ 33	Colmonell ..	*	*	*	1	24	*	*	*	*
p Cally, Gatehouse	120	49	3rd	23	30th	44·9	35·1	40·2	+ 0·5	6	1·98	50	+ 11	Dumfries ..	1·3	—	18	2	16	38·6	- 1·1	42·3	- 1·3
p Dumfries	160	50	3rd	24	30th	45·4	36·0	40·9	+ 1·4	7	1·57	40	+ 12	Eskdalemuir ..	0·3	—	4	3	12	*	*	*	*
a Eskdalemuir	794	47	2, 3	17	30th	42·7	30 1	36·7	—	7	2 60	66	—										
b, I. OF MAN p Douglas	277	52	3rd	30	30th	48·0	39·6	44·0	+ 1·4	7	1·40	36	+ 1	Douglas	1·8	+ 0·3	24	1	25	*	*	*	*
2. ENGLAND, N.E																							
a North .. a Alnwick Castle	210	51	3rd	30	30th	45·6	34·3	40·2	+ 0·6	6	0·52	13	- 9										
a North .. a Tynemouth	118	52	3rd	30	30th	45·3	36·0	40·8	+ 0·5	3	0·12	3	- 13	Cockle Park ..	1·6	0·0	23	2	24	36·7	- 1·5	41·0	- 1·3
a North .. p Durham	336	52	3rd	28	30th	43·9	34 1	39·2	+ 0·3	6	0·18	5	- 10	Durham ..	2·1	+ 0·7	29	4	18	*	*	*	*
a North .. p Rounton	249	53	3rd	27	30th	44·6	34·9	39·9	+ 1·1	6	0·50	13	- 3	Rounton ..	*	*	*	7	16	38·3	*	*	*
a North .. a West Witton	605	51	2nd	21	30th	45·1	33·1	39·3	—	7	0·93	24	—	West Witton ..	*	*	*	4	20	37·3	—	41·7	—
a North .. p Scarborough	100	—	—	—	—	—	—	—	—	5	0·20	5	- 13	Scarborough† ..	1·3	+ 0·1	18	*	*	*	—	*	—
a North .. p York	56	54	3rd	25	30th	45·6	35·0	40·5	+ 0·7	6	0·41	10	- 6	York	1·4	+ 0·5	19	—	—	39·7	- 2·0	44·1	- 1·7
b South .. a Spurn Head	26	50	3rd	30	30th	45·4	36·0	40·9	- 0·2	6	0·47	12	- 3	Spurn Head ..	*	*	*	*	*	*	*	*	*
b South .. a Lincoln	58	55	3rd	24	30th	48·4	35·6	42·3	+ 2·9	6	0·70	18	+ 2	Lincoln	*	*	*	3	24	38·7	- 1·4	43 6	- 1·9
b South .. a Fulbeck	180	54	3rd	26	30th	47 7	33·7	41·0	+ 1·5	7	0·87	22	+ 5	Fulbeck	1·1	—	14	*	*	—	—	—	—
														Skegness ..	1·1	- 0·7	14	*	*	*	*	*	*
3. ENGLAND, E.																							
p Cromer	196	55	3rd	28	30th	48·3	35·9	42·4	+ 1·4	7	1·44	37	+ 23	Cromer	1·4	- 0 1	18	*	*	*	*	*	*
a Little Massingham	280	52	3rd	25	30th	47·1	32·6	40·1	+ 0·5	6	1·78	45	+ 26	Lit. Massingham	1·2	- 0·1	16	*	*	*	*	*	*
a Yarmouth	13	54	3rd	29	30, 1	48·0	35·7	42·1	+ 1·3	7	1 26	32	+ 15	Yarmouth ..	1·8	—	23	1	25	41·0	- 0·9	44·9	- 1·8
a Norwich	93	54	3rd	29	30th	48·3	36·3	42·5	+ 2·4	7	2·10	53	+ 35	Norwich ..	1 6	—	21	4	24	37·8	*	*	*
a Geldeston	37	55	3rd	27	30th	49·7	35·0	42·6	+ 1·8	7	1·23	31	+ 15	Geldeston ..	1·5	0·0	19	*	*	*	*	*	*
p Cambridge	41	54	3rd	27	30, 1	48·4	33·7	41·3	+ 1·2	6	1·99	51	+ 37	Cambridge ..	1·5	+ 0·1	19	4	21	40·7	- 1·2	45·4	- 1·3
a Clacton-on-Sea	54	51	3rd	31	30, 1	47·0	36·7	42·1	+ 1·2	7	1·33	34	+ 21	Clacton	1·3	- 0·3	16	1	26	41·2	- 2·9	45·8	- 2·3
a Rothamsted	424	53	3rd	23	30th	48·6	34·9	42·0	+ 2·0	7	2·96	75	+ 56	Rothamsted ..	1·3	- 0·1	16	4	19	40·0	*	*	*
p Tottenham	51	53	4th	30	30th	49·1	40·4	44·9	—	7	2·00	51	—	Tottenham ..	1 0	—	13	1	26	*	*	46·2	- 1·8
														S'thend-on-Sea	1·3	—	16	1	29	40·7	- 2·5	—	—
4. MIDLAND COUNTIES.																							
a North .. a Harrogate	479	51	2, 3	26	30th	45·6	34·9	40·5	+ 1·6	7	0·91	23	+ 4	Harrogate ..	1·4	0·0	19	2	23	39·4	- 1·4	42·2	- 1·0
a North .. p Sheffield	429	54	3rd	29	30th	46·3	36·4	41·6	—	7	1·79	45	—	Sheffield.. ..	1·0	- 0·2	13	2	24	38·9	- 2·0	43·9	- 1·7
a North .. p Buxton	987	49	3rd	26	30th	42·4	33·9	38·3	—	7	3·10	79	+ 44	Buxton	0 1	—	1	3	22	36·9	- 2·4	41·8	- 2·9
b, East .. a Worksop	56	56	3rd	25	30th	48·4	34·9	41·9	+ 2·1	6	0·74	19	+ 4	Worksop ..	0·7	- 0·4	9	3	16	39·1	—	43·0	—
b, East .. a Nottingham	82	55	3rd	24	30th	48·4	36·1	42·5	+ 2·5	7	0·87	22	+ 7	Nottingham ..	0·6	- 0·4	8	4	21	38·7	- 1·4	41·3	- 2·6
b, East .. p Birmingham, Edgbsn.	535	53	3rd	27	30th	46·9	36·0	41·7	+ 1·7	6	1·01	26	+ 9	Birmingham ..	1 0	0·0	13	2	15	40·8	- 1·6	45·1	- 1·9
b, East .. a Raunds	203	54	3rd	24	30th	48·9	34·4	41·9	+ 2·8	6	1·42	36	+ 21	Raunds	1·5	—	19	4	17	40·2	—	45·4	—
b, East .. p Oxford	208	54	3rd	29	30th	48 6	37·0	43·0	+ 2·3	7	2·18	55	+ 39	Oxford	1·5	0·0	19	2	22	*	*	*	*
														Malvern ..	1 7	—	22	4	11	39·4	—	43·8	*
c, West .. a Cheadle (N. Staffs.)	646	51	3rd	25	30th	46·0	33·4	40·0	+ 1·2	7	1·24	32	+ 11	Cheadle	*	*	*	4	24	*	*	*	*
c, West .. p Tenbury	313	54	3rd	22	30th	48·4	36 6	42·7	+ 2·1	7	1·07	27	+ 13	Tenbury	*	*	*	2	18	39·8	—	—	—
c, West .. p Ross-on-Wye	201	54	5th	17	30th	49·1	36·3	43 0	+ 2·3	7	1·17	30	+ 12	Ross-on-Wye ..	1 7	—	22	2	15	—	—	—	—
c, West .. a Clifton	229	52	3rd	28	30th	49·1	38·4	44·0	+ 2·0	7	2·67	68	+ 42	Clifton	1·6	—	20	1	28	*	*	*	*
5. ENGLAND, S.E.																							
a Marlborough	424	53	3rd	24	30th	48·3	35·4	42·6	+ 2·7	7	2·50	64	+ 39	Worthing ..	1·9	+ 0·1	24	3	21	42·7	- 1·6	46·9	- 1·5
p Salisbury (Wilton)	180	53	3, 4	24	30th	49·9	35·3	42·9	+ 2·3	7	2·61	66	+ 36	Marlborough ..	1·0	- 0·2	13	3	19	41·1	—	45·8	—
a Wisley, Surrey	150	53	3rd	27	30th	50·1	37·3	44·0	+ 3·0	7	2·46	62	+ 44	Salisbury ..	*	*	*	2	22	41·5	—	*	*
a Tunbridge Wells	354	53	4th	25	30th	49·7	35·4	42·8	+ 1·5	7	1·96	50	+ 24	Wisley	1·2	- 0·1	15	2	14	41·5	- 1·4	44·9	- 1·8
a Margate	51	53	3, 4	31	30th	50·3	37·4	44·1	+ 1·5	7	1·11	28	+ 11	Tunbridge Wells	1·5	0·0	19	3	16	42·5	+0·7	46·1	—
														Margate	1·6	+ 0·2	20	1	26	42·4	- 2·2	46·2	- 0·9
a Dungeness	21	52	5th	27	1st	49·7	37·9	44·0	+ 1·0	7	1·39	35	+ 14	Folkestone ..	1·5	—	19	*	*	*	*	46·4	—
p St. Leonards	178	—	—	—	—	—	—	—	—	—	—	—	—	St. Leonards ..	2·1	+ 0·3	26	—	—	—	—	—	—
p Southampton	64	52	3-5	25	30th	49·9	36·7	43 6	+ 0·7	7	2·63	68	+ 42	Southampton ..	1·1	- 0 5	14	4	17	*	*	*	*
a Ventnor	59	53	4th	34	30th	50·9	41·3	46·3	+ 1·2	7	1·81	46	+ 21	Ventnor	1·6	- 0·1	20	*	*	*	*	*	*
LONDON. a Richmond (Kew Obs.)	18	53	3rd	29	1st	49·7	37·8	44·0	+ 2·5	7	1·96	50	+ 33	Richmond ..	1 0	- 0·3	13	2	19	40·3	- 2·3	45·0	- 2·1
a Westminster	27	55	3rd	28	30th	50·7	39·2	45·2	+ 2 7	7	1·76	45	+ 29	Westminster ..	0 8	+ 0·2	11	3	23	*	*	*	*
ag Greenwich	149	54	3rd	26	30th	50·3	37·0	43·9	+ 2·7	7	1·77	45	+ 33	Greenwich ..	1·3	+ 0·1	16	0	17	*	*	*	*
a Hampstead	450	52	3rd	28	30th	47·9	36·1	42·2	—	7	1·93	49	—	Hampstead ..	1 3	—	1o	6	24	*	*	*	*
ag Camden Square	110	53	3rd	28	30th	50·0	37·0	43·8	+ 2·0	7	1·94	49	+ 31	Camden Square	—	—	—	2	24	*	*	*	*
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	49	3, 5	30	30th	44·6	36·1	40·5	+ 0·5	7	1·02	26	- 4	Aspatria	0·2	- 1·0	3	3	24	40·0	- 1·2	43·6	- 2·3
p Newton Rigg	559	51	3rd	24	30th	44·6	34·9	39·9	+ 1·5	7	1·16	29	+ 1	Newton Rigg ..	0·9	- 0·2	12	3	17	39·1	- 1·3	43·1	- 0·7
p Stonyhurst	375	50	2nd	25	30th	46·0	36·4	41·4	+ 1·3	7	1·34	34	+ 1	Stonyhurst ..	0·3	- 0·7	4	2	24	*	*	*	*
p Blackpool	66	50	3rd	28	30th	46·9	38·0	42·6	+ 1·4	7	0·86	22	- 1	Blackpool ..	1·0	- 0·2	13	2	26	41·9	—	46·0	—
a Southport	37	51	3rd	28	30th	46·7	37·3	42·2	+ 1·0	7	0·67	17	- 5	Southport ..	0 8	- 0 4	11	1	26	38·1	- 1·8	41·5	- 2·3
														Hoylake ..	1·4	+ 0·1	18	*	*	*	*	*	*
a Liverpool (Bidston)	188	53	3, 5	31	30th	48·4	38·1	43·5	+ 1·5	6	0·79	20	+ 2	Liverpool ..	1·3	—	17	3	23	*	*	*	*
a Hawarden Bridge	22	55	2, 3	29	30th	49·9	38·6	44·5	+ 2·0	6	0·96	24	+ 8	Manchester (City)	0 0	- 0 3	0	1	26	38·8	- 2·1	43·5	- 2·6
a Mancnester (Whit. Pk.)	126	52	3rd	29	30th	47·3	37·4	42·6	+ 1·3	7	1·27	32	+ 11	Whitworth Park	0·2	- 0·3	3	*	*	*	*	*	*
b. NORTH WALES.																							
p Llandudno	16	55	3rd	28	30th	49·6	39·4	44·7	+ 0·9	7	1·09	28	+ 7	Llandudno ..	1·2	- 0·2	16	*	*	*	*	*	*
a Holyhead	15	53	5th	33	30th	49·6	41·0	45·5	+ 1·2	6	1·26	32	+ 3	Holyhead ..	1·7	—	22	1	28	*	*	*	*
a Beddgelert	309	—	—	—	—	—	—	—	—	—	—	—	—										
a Aberdovey	52	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest	Date.	Lowest	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.
8. *a*, SOUTH WALES.																							
a Aberystwyth	59	49	2,3	32	30th	47·7	40·3	44·2	—	7	1·19	30	—	Aberystwyth ..	1·3	— 0·1	17	•	•	•	•	•	•
a Rhayader	767	52	2,3	25	30th	47·6	35·0	41·6	—	7	3·67	93	—	Rhayader ..	1·2	—	16	3	14	•	•	•	•
a St. Ann's Head ..	149	52	2·5	36	30th	50·4	45·1	47·9	+ 2·4	7	1·69	43	+ 10	St. Ann's Head ..	2·2	+ 0·6	28	•	•	•	•	•	•
p Cardiff	202	52	3rd	28	30th	48·3	37·9	43·3	+ 1·6	7	3·62	92	+ 57	Cardiff	1·6	—	20	1	24	41·5	-1·4	45·3	-1·7
b, ENGLAND, S.W.																							
a Bath	66	55	3rd	24	30th	51·9	34·6	43·6	+ 1·8	7	2·50	64	+ 40	Bath	•	•	•	—	—	41·5	-2·4	45·7	-2·5
a Shaftesbury	722	51	3rd	29	30th	48·7	37·1	43·1	+ 2·4	7	2·48	63	+ 37	Shaftesbury ..	•	•	•	•	•	41·0	—	45·1	—
a Arlington	613	51	2,3	29	30th	48·3	39·1	43·9	+ 1·9	7	4·22	107	+ 59										
a Newquay	190	52	2-5	32	30th	51·0	43·5	47·4	+ 1·2	6	1·55	39	+ 8	Newquay ..	1·5	— 0·3	19	•	•	45·3	—	48·9	—
a Cullompton	202	54	3rd	25	30th	51·3	36·6	44·2	+ 2·0	7	2·48	63	+ 32	Cullompton ..	1·1	— 0·3	14	4	21	43·1	•	•	•
a Portland Bill	19	53	30, 4	37	1st	51·7	43·3	47·7	+ 2·0	6	2·48	63	+ 42	Weymouth ..	2·0	—	25	•	•	•	•	•	•
p Plymouth	116	54	5th	29	30th	52·1	43·6	47·5	+ 2·5	7	1·98	50	+ 16	Plymouth ..	1·3	— 0·5	16	1	26	43·8	-2·1	47·2	—
a Falmouth	167	54	4th	30	30th	51·9	41·1	46·7	+ 0·8	7	2·14	54	+ 10	Falmouth ..	1·3	— 0·7	16	1	23	45·5	—	48·2	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	20	50	5th	33	1st	47·0	37·4	42·4	— 0·1	6	1·57	40	+ 17	Malin Head ..	1·7	—	24	•	•	•	•	•	•
{ *a* Blacksod Point ..	37	53	5th	32	30th	50·0	37·7	44·1	+ 0·2	7	2·48	63	+ 24	Markree Castle	1·5	+ 0·2	20	3	18	40·6	-2·5	45·7	-1·8
{ *p* Markree Castle ..	122	53	3, 5	20	30th	47·9	34·9	41·7	+ 1·1	7	2·00	51	+ 20										
b, East .. { *p* Armagh	196	52	3rd	23	30th	46·3	35·0	40·9	+ 0·4	7	1·30	33	+ 12	Armagh	2·0	+ 0·6	27	1	15	39·2	-2·8	44·0	-1·6
{ *a* Donaghadee	39	52	2, 3, 5	31	30, 1	48·4	35·9	42·4	+ 0·4	7	0·87	22	+ 1										
10. IRELAND, S.																							
p Dublin, City	47	55	5th	25	30th	48·9	37·9	43·6	+ 0·4	7	0·95	24	+ 7	Trinity Coll. ..	1·9	•	25	2	14	41·8	—1·2	45·4	-1·0
a Birr Castle	175	53	2, 3, 5	25	30th	48·9	34·6	42·0	+ 0·8	7	1·26	32	+ 11	Phœnix Park ..	2·4	+ 0·7	32	3	12	•	•	•	•
a Kilkenny	195	54	2, 3, 5	24	30th*	50·6	34·0	42·6	+ 1·2	7	1·12	29	+ 7	Dublin City ..	•	•	•	1	20	•	•	•	•
a Waterford	137	54	3, 4	30	30, 1, 3	50·4	36·1	43·5	+ 0·3	6	1·30	33	+ 5	Birr Castle ..	2·3	+ 0·8	30	4	20	•	•	•	•
p Seskin, Carrick-on-Suir	535	54	3rd	27	30th	48·9	36·9	43·1	—	7	1·39	43	—	Seskin	2·3	—	30	3	28	•	•	•	•
a Cahir	199	54	3rd	26	30th	49·9	34·9	42·7	+ 1·0	6	1·07	27	—										
a Foynes	50	54	2, 3, 5	27	30th	51·7	37·9	45·1	+ 1·8	7	1·51	38	+ 9										
a Cahirciveen (Val. Obs.)	30	56	2nd	28	30th	52·6	42·4	47·7	+ 1·9	6	1·46	37	- 4	Cahirciveen ..	0·9	— 0·6	12	1	24	•	•	•	•
a Killarney	174	57	4, 5	26	30th	53·2	38·8	46·3	+ 2·3	7	1·55	39	- 5	Ballinacurra ..	1·7	+ 0·2	22	•	•	•	•	•	•
a Roche's Point	32	55	5th	32	30th	51·9	39·6	46·0	+ 0·9	7	1·14	29	- 3										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	52	2-5	40	30th	51·4	45·7	48·7	+ 0·7	6	1·26	32	0	Scilly	1·8	— 0·1	22	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	54	3, 4	33	30th	52·3	43·1	47·9	+ 1·7	6	1·30	33	+ 1	St. Heliers ..	1·3	— 0·7	16	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	53	2, 3, 4	35	30th	51·7	44·4	48·2	+ 2·0	6	2·01	51	+ 16	Guernsey† ..	1·2	— 0·6	15	1	25	46·4	— 0·9	48·9	-1·7

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, December 6th, 1919.

DISTRICT AND STATION	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Dur-ation.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Dur-ation.	6 to 10 m/s. Dur-ation.	2 to 5 m/s. Dur-ation.	Less than 2 m/s. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	30, 1, 3 to 5	35	71	40	22	0	236	15	4	9	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	4	111	17	36	180	7	30	24	19	1	0	35
Aberdeen	153	105	52	—	—	—	—	52	98	18	0	259	10	5	17	19	5	16	30
Edinburgh	485	39	31	—	—	30, 3 to 5	20	113	26	9	0	214	17	5	12	29	4	5	35
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	2 to 5	17	100	33	18	0	290	13	{ 4 / { 5	18 / 14, 15	26	{ 4 / { 5	18 / 13	30 / 35
Paisley	188	81	15	—	—	—	—	62	90	16	0	180	10	30	22	29	5	14	50
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
South Shields	72	61	12	—	—	3 to 6	16	73	64	15	0	281	13	4	12	22	5	8	25
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Gorleston	52	42	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Shoeburyness	103	90	‡	2	2	30, 1, 2, 4 to 6	16	120	29	1	0	180	12	2	10	32	2	10	45
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	1, 4	2	103	43	20	0	247	11	4	16	24	4	16	15
5. ENGLAND, S.E.																			
Brighton	261	53	6	2	1	2, 4	6	108	41	12	0	—	18	2	9	30	2	9	35
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	2 to 6	45	63	5	1	54	{ 270 / 281	16 / 16	4 / 5	16 / 17	29	4	15	55
Richmond (Kew Obs.)..	82	65	22	—	—	2	1	61	93	13	0	270	11	2	10	30	2	9	35
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	4	1	89	60	18	0	225	11	4	15	15	4	14	55
Fleetwood (Cup Anr.) ..	109	44	—	4	2	30, 2, 4 to 6	56	77	33	0	0	281	19	4	17	—	—	—	—
Southport	80	62	48	4, 6	4	30, 2 to 6	83	58	23	0	0	281	19	4	17	26	6	10	55
Holyhead	60	40	‡	4, 6	9	30, 2, 4 to 6	73	49	37	0	0	281	19	4	16	28	4	13	10
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	30, 1, 2, 5, 6	13	30 to 6	59	67	14	13	2	203	22	2	5	33	2	5	30
Plymouth	185	88	2	30, 1, 2	4	30, 1, 2, 4 to 6	21	81	56	6	0	—	21	2	6	30	2	6	5
Lyme Regis	556	61	‡	—	—	30, 1, 2, 4	12	76	53	27	0	—	14	4	17	26	2	7	5
9. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	4 to 6	6	30, 2 to 6	92	45	20	5	0	236	19	4	10	—	—	—	—
Quilty	100	40	‡	4, 6	12	30, 2 to 6	91	64	1	0	0	—	20	6	20	32	4	10	40
Cahirciveen (Val. Obs.)	98	41	‡	—	—	30, 3 to 6	49	98	18	0	3	235	16	5	8	28	6	20	5
Weaver Pt.	160	30	‡	30	1	30, 1, 4 to 6	31	89	44	3	0	—	18	30	15	27	6	20	25
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	6	8	30, 2 to 6	41	92	21	6	0	293	22	6	24	29	6	22	45

† More exactly the ranges adopted for this classification are > 17·2, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory
* Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FORTY-NINTH WEEK of 1919—November 30th to December 6th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr	hr.	%	mb.
0. SCOTLAND, NORTH ...	49	20	79·6	74·7	77·2	+ 0·4	5	− 4	27	− 2	6	0	1·62	41	− 1	1·4	+0·6	20	997
Eastern.																			
1. SCOTLAND, EAST ...	52	15	79·0	73·3	76·3	− 0·1	2	− 6	35	+ 1	5	0	0·94	24	0	1·7	+0·4	24	1000
2. ENGLAND, N.E.	55	24	80·7	74·7	77·8	+ 0·3	11	+ 1	29	+ 3	6	+ 2	0·44	11	− 6	1·4	+0·1	19	1005
3. ENGLAND, EAST ...	55	23	82·1	75·1	78·7	+ 1·0	28	+ 14	18	− 9	7	+ 2	1·79	45	+ 29	1·4	0·0	18	1011
4. MIDLAND COUNTIES ...	56	17	81·8	75·1	78·6	+ 1·2	27	+ 13	17	−13	7	+ 2	1·33	34	+ 16	1·2	−0·1	15	1010
5. ENGLAND, S.E.	53	24	82·9	75·9	79·6	+ 0·9	33	+ 12	13	− 6	7	+ 2	2·05	52	+ 28	1·5	0·0	18	1012
Western.																			
6. SCOTLAND, WEST ...	52	21	80·8	75·4	78·2	+ 0·3	11	− 3	24	+ 5	7	+ 2	2·32	59	+ 19	1·3	+0·2	18	1004
7. ENGLAND, N.W.	55	24	81·6	76·2	79·0	+ 0·7	24	+ 9	12	− 8	7	+ 2	1·07	27	+ 1	0·8	−0·3	11	1008
8. ENGLAND, S.W.	55	24	83·1	77·0	80·2	+ 0·8	33	+ 8	8	− 5	7	+ 2	2·73	69	+ 33	1·4	−0·2	18	1013
9. IRELAND, NORTH ...	53	20	81·9	75·2	78·7	+ 0·4	28	+ 13	17	− 4	7	+ 1	1·58	40	+ 13	1·8	+0·4	24	1003
10. IRELAND, SOUTH ...	57	24	83·5	76·0	79·9	+ 0·6	37	+ 12	13	− 2	7	+ 2	1·26	32	+ 3	1·8	+0·3	24	1010
11. ENGLISH CHANNEL ...	54	33	84·0	79·9	82·1	+ 0·7	44	+ 5	0	− 3	6	0	1·52	39	+ 6	1·4	−0·4	18	1017

THE SEASON (Winter).—Aggregates, &c., for the Period of 1 Week, November 30th to December 6th 1919.

0. SCOTLAND, NORTH ...	49	20	79·6	74·7	77·2	+ 0·4	5	− 4	27	− 2	6	0	1·62	41	− 1	1·4	+0·6	20	997
Eastern.																			
1. SCOTLAND, EAST ...	52	15	79·0	73·3	76·3	− 0·1	2	− 6	35	+ 1	5	0	0·94	24	0	1·7	+0·4	24	1000
2. ENGLAND, N.E.	55	24	80·7	74·7	77·8	+ 0·3	11	+ 1	29	+ 3	6	+ 2	0·44	11	− 6	1·4	+0·1	19	1005
3. ENGLAND, EAST ...	55	23	82·1	75·1	78·7	+ 1·0	28	+ 14	18	− 9	7	+ 2	1·79	45	+ 29	1·4	0·0	18	1011
4. MIDLAND COUNTIES ...	56	17	81·8	75·1	78·6	+ 1·2	27	+ 13	17	− 13	7	+ 2	1·33	34	+ 16	1·2	−0·1	15	1010
5. ENGLAND, S.E.	53	24	82·9	75·9	79·6	+ 0·9	33	+ 12	13	− 6	7	+ 2	2·05	52	+ 28	1·5	0·0	18	1012
Western.																			
6. SCOTLAND, WEST ...	52	21	80·8	75·4	78·2	+ 0·3	11	− 3	24	+ 5	7	+ 2	2·32	59	+ 19	1·3	+0·2	18	1004
7. ENGLAND, N.W.	55	24	81·6	76·2	79·0	+ 0·7	24	+ 9	12	− 8	7	+ 2	1·07	27	+ 1	0·8	−0·3	11	1008
8. ENGLAND, S.W.	55	24	83·1	77·0	80·2	+ 0·8	33	+ 8	8	− 5	7	+ 2	2·73	69	+ 33	1·4	−0·2	18	1013
9. IRELAND, NORTH ...	53	20	81·9	75·2	78·7	+ 0·4	28	+ 13	17	− 4	7	+ 1	1·58	40	+ 13	1·8	+0·4	24	1003
10. IRELAND, SOUTH ...	57	24	83·5	76·0	79·9	+ 0·6	37	+ 12	13	− 2	7	+ 2	1·26	32	+ 3	1·8	+0·3	24	1010
11. ENGLISH CHANNEL ...	54	33	84·0	79·9	82·1	+ 0·7	44	+ 5	0	− 3	6	0	1·52	39	+ 6	1·4	−0·4	18	1017

THE YEAR 1919.—Aggregates, &c., for the Period of 49 Weeks, December 29th, 1918, to December 6th, 1919.

0. SCOTLAND, NORTH ...	78	9	83·1	77·1	80·0	− 0·8	1831	−251	917	+ 231	219	−11	42·26	1076	−127	3·5	+0·3	28	1011
Eastern.																			
1. SCOTLAND, EAST ...	78	−6	83·9	76·4	80·0	− 0·9	2030	−272	1088	+ 286	186	− 9	27·39	702	− 40	4·0	+0·2	32	1012
2. ENGLAND, N.E.	85	11	85·1	77·7	81·3	− 0·6	2470	−189	807	+ 224	187	+11	24·90	633	+ 37	4·0	−0·1	32	1013
3. ENGLAND, EAST ...	88	10	85·7	77·9	81·7	− 0·8	2720	−328	816	+ 206	167	− 5	23·41	597	+ 28	4·3	−0·2	35	1014
4. MIDLAND COUNTIES ...	90	9	85·6	77·6	81·5	− 0·7	2730	−218	877	+ 208	166	− 5	26·31	669	+ 35	4·0	0·0	32	1014
5. ENGLAND, S.E.	86	16	86·2	78·6	82·3	− 0·8	2998	−286	644	+ 182	162	− 6	25·80	653	+ 1	4·5	−0·2	36	1014
Western.																			
6. SCOTLAND, WEST ...	83	12	84·6	77·8	81·0	− 0·8	2277	−278	763	+ 239	190	−14	36·48	929	−182	4·3	+0·4	34	1013
7. ENGLAND, N.W.	84	10	84·9	78·5	81·6	− 0·7	2517	−274	661	+ 195	175	−13	27·66	702	−136	4·1	0·0	33	1014
8. ENGLAND, S.W.	86	15	85·8	78·9	82·2	− 0·8	2843	−280	564	+ 199	176	−12	33·78	858	− 57	4·7	+0·2	38	1015
9. IRELAND, NORTH ...	78	12	85·0	78·4	81·6	− 0·6	2472	−194	613	+ 181	211	−13	30·78	776	−129	3·9	+0·2	32	1013
10. IRELAND, SOUTH ...	80	15	86·0	79·1	82·4	− 0·6	2903	−191	540	+ 206	197	− 2	28·78	732	−208	4·3	+0·2	34	1015
11. ENGLISH CHANNEL ...	85	26	86·6	81·3	83·9	− 0·5	3416	−301	167	+ 54	184	−12	35·23	903	+130	5·1	−0·3	42	1016
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: December 12th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PRINTED AND PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET, MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

FORTY-SECOND YEAR. *Vol. XXXVI. (New Series.)* } No. 50.

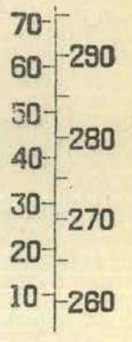
THE FIFTIETH WEEK OF 1919.

SUNDAY, DECEMBER 7TH, TO SATURDAY, DECEMBER 13TH, 1919.

Price 6d. Net, Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d. Net.

I.—GENERAL SUMMARY. [First published in 1878.]

The weather of the week over the United Kingdom was of a disturbed character generally. For the first few days strong Northerly winds prevailed in the rear of the depression noticed last week, with showers of hail and snow over Scotland. By Tuesday a new low pressure system had appeared over the Eastern Atlantic, and this dominated the weather over the British Isles until the close of the period. Heavy rain fell over Ireland and the west of Scotland and strong winds or gales from a Southerly quarter were experienced in the west generally. The mean temperature of the week was slightly below the normal in nearly all districts. The highest of the maxima exceeded 283 a over the western districts only; at many stations in the North and East temperature did not rise to 280 a on any day; on the 9th at Durham and Rounton it did not exceed 275 a, while on the same day at Balmoral and Crieff 273 a was the highest point reached. Minima below 273 a were recorded excepting at some western stations; at many places over the eastern half of Great Britain on the 9th and 10th the thermometer in the screen went down to 269 a and below, and on the grass to below 266 a, the lowest reading recorded being 262 a at Greenwich Observatory. Rainfall was considerably in excess of the normal in Scotland W. and over Ireland, but in most other districts there was a deficiency. Amounts of 20mm. and more in a day were very numerous, on the 10th 27mm. fell at Cahir, 29mm. at Douglas, I. of Man, 44mm. at Rothesay, and 50mm. at Colmonel, on the 12th 59mm. at Roche's Point, while on the 13th at Blacksod Point there were 23mm. and at Castlebay 31mm. In most districts there were two or three bright days, and the daily mean of bright sunshine was mostly rather more than the normal. Aurora was seen at Gordon Castle on the 7th. Solar halos were observed at Seskin (Carrick-on-Suir) on the 7th, and in various parts of England on the 9th and 10th, and lunar halos in many parts of Great Britain on several occasions.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E.† Shoeburyness.		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	14	9·2	19	7·1	15	7·3	14	4·3	19	7·7	17	6·3	19	5·7	16	5·8
North	11	7·4	7	4·7	9	6·7	9	3·6	8	9·6	11	8·4	2	3·0	6	8·0
West	6	5·3	16	3·4	16	3·2	12	2·5	16	3·5	20	3·9	17	5·6	14	3·1
East	14	2·3	9	2·9	2	1·0	6	1·4	6	2·5	3	2·5	4	1·2	5	1·6
Calm	1	—	1	—	4	—	5	—	0	—	0	—	1	—	6	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient
	Rainfall ...	Moderate	Moderate	Moderate	Moderate	Light	Light	Heavy	Light	Moderate	Very heavy	Heavy	Light
	Sunshine ...	Abundant	Abundant	Moderate	Moderate	Abundant	Moderate	Very abundant	Very abundant	Abundant	Moderate	Moderate	Abundant

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

WINTER. 2 weeks from Nov. 30th, 1919.	Warmth ...	0, 2, 0	0, 2, 0	0, 2, 0	1, 1, 0	1, 1, 0	1, 1, 0	0, 2, 0	1, 1, 0	1, 1, 0	1, 1, 0	1, 1, 0	1, 0, 1
	Rainfall ...	0, 2, 0	0, 2, 0	0, 2, 0	1, 1, 0	1, 0, 1	1, 0, 1	2, 0, 0	0, 1, 1	1, 1, 0	2, 0, 0	2, 0, 0	1, 0, 1
	Sunshine ...	2, 0, 0	2, 0, 0	0, 2, 0	0, 2, 0	1, 1, 0	0, 2, 0	1, 1, 0	1, 1, 0	1, 1, 0	1, 1, 0	0, 2, 0	1, 0, 1

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C = 32° F., 1 mm = ·04 (·0394) inch 1000 mb = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(22639—19) Wt 162—833/512 625 12/19 H. St. G. 17/36

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.	in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																						
a Lerwick ..	54	46	12, 13	30	9th	43·4	36·4	40·0	− 0·3	7	1·04	26	− 4									
a, Islands .. p Deerness, Orkney	165	45	12, 13	32	8, 9	42·7	36·9	39·9	—	5	0·67	17	− 9	Deerness ..	1·0	+ 0·5	17	*	*	*	*	*	*
a Stornoway ..	51	47	10, 13	32	9th	44·1	37·1	40·7	+ 0·4	6	1·77	45	+ 6	Stornoway ..	0·7	+ 0·1	11	*	*	*	*	*	*
a Castlebay, Barra I.	37	49	12, 13	37	8, 9	46·3	40·6	43·6	—	6	2·02	51	—	Castlebay ..	0·8	—	12	*	*	*	*	*	*
b, Mainland. a Wick	81	46	8, 12, 13	28	9th	42·9	34·4	39·3	0·0	5	0·59	15	− 4									
a Strathpeffer	125	47	13th	25	10th	41·7	30·9	36·5	− 1·6	3	0·39	10	− 12									
p Glencarron	600	—	—	—	—	—	—	—	—	—	—	—	—									
a Fort Augustus	89	—	—	—	—	—	—	—	—	—	—	—	—									
p Fort William	171	48	13th	28	9th	43·4	34·7	39·2	− 0·8	5	1·56	40	− 23									
1. SCOTLAND, E.																						
a Nairn	82	48	13th	25	10th	41·9	32·6	37·4	− 0·6	4	0·37	10	− 2	Nairn ..	1·0	—	16	*	*	*	*	*	*
p Gordon Castle	101	46	12, 13	30	9th	41·9	35·4	38·8	− 0·2	5	0·45	11	− 4	Gordon Castle..	0·8	—	13	*	*	*	*	*	*
a Aberdeen	46	46	12th	30	9, 10	42·4	35·9	39·3	+ 0·4	5	1·31	33	+ 15	Aberdeen ..	1·3	+ 0·2	20	2	25	*	*	40·1	− 2·5
a Balmoral	930	42	11–13	20	9th	37·9	30·4	34·3	− 0·9	6	1·00	25	+ 7	Balmoral ..	*	*	*	2	17	*	*	*	*
p Crieff	432	44	12, 13	27	9th	40·7	32·7	36·9	− 1·1	5	1·84	47	+ 23	Crathes ..	0·9	− 0·2	14	2	21	34·3	− 3·7	38·5	− 2·6
a Dundee	244	45	11, 12	26	10th	42·3	31·9	37·3	− 0·7	6	0·90	23	+ 8	Dundee ..	2·2	—	33	5	22	34·1	*	*	*
a Leith	30	48	13th	31	9, 10	44·0	35·7	40·0	− 0·3	4	0·20	5	− 6	Leith ..	*	*	*	3	25	*	*	*	*
p Edinburgh	441	46	12, 13	30	9th	42·1	35·9	39·1	− 0·1	4	0·23	6	− 6	Edinburgh ..	2·3	+ 1·0	33	2	22	*	*	*	*
a West Linton	769	45	12th	23	9, 10	40·4	31·6	36·2	+ 1·1	5	0·38	10	—	West Linton ..	1·9	—	28	4	15	*	*	*	*
p Marchmont	498	46	12th	27	9th	41·3	33·3	37·5	0·0	2	0·51	13	− 2	Marchmont ..	2·2	+ 1·2	32	*	*	*	*	*	*
6. a, SCOTLAND, W.																						
a Ford (Argyll)	149	48	13th	27	9, 10	45·3	32·5	39·2	—	6	2·88	73	—	Ford (Argyll) ..	*	*	*	4	18	37·4	—	41·2	—
p Glasgow Observatory	180	46	11, 13	31	9th	42·7	37·0	40·0	+ 0·2	5	0·65	17	− 6	Glasgow ..	1·7	+ 1·2	25	3	22	*	*	*	*
p Rothesay	200	46	11, 13	32	9th	42·7	36·7	39·8	− 0·9	5	2·91	74	+ 43	Rothesay ..	1·6	—	23	3	28	38·1	—	42·1	− 2·2
a Kilmarnock	90	47	11–13	27	8, 9	44·0	34·0	39·2	+ 0·1	5	1·35	34	+ 11	Kilmarnock ..	2·4	—	35	*	*	37·9	—	42·7	—
a Colmonell	170	48	10th	30	9th	45·6	37·4	41·7	+ 1·0	5	3·53	90	+ 59	Colmonell ..	*	*	*	1	28	*	*	*	*
p Cally, Gatehouse	120	47	11th	29	9th	43·3	35·7	39·7	+ 0·3	5	2·95	75	+ 44	Dumfries ..	2·0	—	29	4	22	37·9	− 2·1	41·9	− 1·3
p Dumfries	160	46	11–13	27	9th	42·3	35·6	39·1	0·0	5	1·08	27	+ 4	Eskdalemuir ..	1·5	—	22	4	20	*	*	*	*
a Eskdalemuir	794	48	12th	23	9, 10	41·0	30·9	36·2	—	5	2·40	61	—									
b, I. OF MAN p Douglas	277	48	11–13	33	9th	45·4	38·7	42·2	− 0·1	6	1·63	42	+ 14	Douglas ..	2·7	+ 1·4	38	3	28	*	*	*	*
2. ENGLAND, N.E.																						
a Alnwick Castle	210	47	12th	28	10th	41·1	32·4	36·9	− 2·5	5	0·65	17	0									
a Tynemouth	118	46	13th	32	9, 10	41·4	35·0	38·3	− 1·8	3	0·67	17	+ 5	Cockle Park ..	1·6	+ 0·1	23	3	25	35·2	− 3·2	40·6	− 1·3
p Durham	336	48	13th	29	9th	40·1	32·6	36·5	− 2·1	3	0·35	9	− 3	Durham ..	1·8	+ 0·5	26	5	21	*	*	*	*
a North .. p Rounton	249	45	13th	28	9th	40·1	33·7	37·0	− 1·5	7	0·33	8	− 5	Rounton ..	*	*	*	6	18	37·6	*	*	*
a West Witton	605	46	13th	28	9, 10	40·7	32·4	36·7	—	3	0·47	12	—	West Witton ..	*	*	*	8	23	36·9	—	41·1	—
p Scarborough	100	—	—	—	—	—	—	—	—	6	0·57	14	0	Scarborough† ..	1·0	− 0·1	14	*	*	*	*	—	—
p York	56	45	13th	30	9th	41·0	34·6	37·9	− 1·6	5	0·19	5	− 8	York ..	1·2	+ 0·4	16	—	—	39·0	− 2·4	43·5	− 1·5
b, South .. a Spurn Head	26	44	12th	32	10th	41·3	35·0	38·3	− 2·4	5	0·43	11	− 1	Spurn Head ..	*	*	*	*	*	*	*	*	*
a Lincoln	58	45	12, 13	29	10th	41·4	34·4	38·0	− 1·0	4	0·17	4	− 9	Lincoln ..	*	*	*	3	25	37·7	− 2·5	43·1	− 1·9
a Fulbeck	180	46	12, 13	28	9, 10	41·6	33·7	37·8	− 1·4	5	0·09	2	− 11	Fulbeck ..	1·7	+ 0·4	23	*	*	—	—	—	—
														Skegness ..	1·4	− 0·2	19	*	*	*	*	*	*
3. ENGLAND, E.																						
p Cromer	196	45	13th	26	10th	42·0	32·7	37·5	− 3·0	5	0·39	10	− 3	Cromer ..	1·5	+ 0·1	20	*	*	*	*	*	*
a Little Massingham	280	47	7th	26	10th	41·0	30·7	36·1	− 3·1	4	0·40	10	− 8	Lit. Massingham	1·4	+ 0·2	19	*	*	*	*	*	*
a Yarmouth	13	44	7th	26	10th	42·1	33·0	37·7	− 2·6	6	0·69	17	+ 1	Yarmouth ..	1·6	—	21	2	23	39·7	− 2·1	44·1	− 2·1
a Norwich	93	45	13th	24	10th	40·7	32·6	36·8	− 2·9	6	0·67	17	0	Norwich ..	1·2	—	16	4	21	36·1	*	*	*
a Geldeston	37	48	12th	22	10th	43·9	30·6	37·5	− 2·9	6	0·82	21	+ 6	Geldeston ..	1·7	+ 0·2	22	*	*	*	*	*	*
p Cambridge	41	45	12th	24	10th	41·7	33·3	37·7	− 2·1	2	0·07	2	− 11	Cambridge ..	1·2	− 0·1	16	5	20	39·0	− 2·8	44·8	− 1·3
a Clacton-on-Sea	54	42	13th	28	10th	40·6	34·1	37·5	− 3·0	3	0·13	3	− 9	Clacton ..	1·4	− 0·1	18	2	21	38·8	− 4·9	45·1	− 2·6
a Rothamsted	424	46	13th	22	10th	41·0	32·3	36·8	− 2·9	3	0·13	3	− 15	Rothamsted ..	2·0	+ 0·6	26	4	17	38·2	*	*	*
p Tottenham	51	45	12, 13	25	10th	42·3	34·4	38·5	—	3	0·04	1	—	Tottenham ..	1·1	—	14	3	24	*	*	45·6	− 1·9
														S'thend-on-Sea	1·6	—	21	2	27	39·2	− 4·0	—	—
4a, MIDLAND COUNTIES.																						
a North .. a Harrogate	479	45	13th	30	9, 10	40·7	33·7	37·3	− 1·3	4	0·17	4	− 15	Harrogate ..	1·7	+ 0·4	23	2	24	38·5	− 2·2	41·7	− 1·0
p Sheffield	429	47	13th	32	9, 10	42·4	36·3	39·5	—	3	0·18	5	—	Sheffield ..	1·4	+ 0·2	19	2	26	38·1	− 2·6	43·3	− 1·6
p Buxton	987	44	13th	28	9, 12	39·0	32·1	35·7	—	3	0·32	8	− 30	Buxton ..	1·2	—	16	4	22	36·0	− 3·3	41·2	− 3·0
b, East .. a Worksop	58	47	13th	27	10th	42·9	34·4	38·8	− 0·6	1	0·11	3	− 13	Worksop ..	1·5	+ 0·5	20	5	18	38·0	—	42·4	—
a Nottingham	82	47	12, 13	28	10th	42·6	35·3	39·1	− 0·6	3	0·07	2	− 14	Nottingham ..	0·5	− 0·4	7	3	23	36·8	− 3·4	40·9	− 2·5
p Birmingham, Edgbsn.	535	46	11, 13	31	9th	41·9	35·7	38·9	− 0·7	3	0·25	6	− 12	Birmingham ..	0·9	0·0	12	4	25	39·7	− 2·7	44·9	− 1·7
a Raunds	203	46	12, 13	25	10th	43·0	32·1	37·8	− 0·9	1	0·08	2	− 14	Raunds ..	2·0	—	26	4	18	39·2	—	44·9	—
p Oxford	208	46	12, 13	29	9th	43·0	36·1	39·7	− 0·7	2	0·12	3	− 13	Oxford ..	2·1	+ 0·7	27	3	21	*	*	*	*
														Malvern ..	1·9	—	25	5	24	38·6	—	43·3	*
c, West .. a Cheadle (N. Staffs.)	646	46	13th	30	9, 10	41·1	33·1	37·3	− 1·1	4	0·31	8	− 14	Cheadle ..	*	*	*	4	26	*	*	*	*
p Tenbury	313	49	11th	28	9th	44·1	33·9	39·2	− 1·3	4	0·21	5	− 9	Tenbury ..	*	*	*	5	22	38·8	—	—	—
p Ross-on-Wye	201	51	11, 12	28	9th	45·4	35·0	40·4	0·0	4	0·31	8	− 11	Ross-on-Wye ..	2·3	—	30	4	22	—	—	—	—
a Clifton	226	49	11th	30	9th	45·1	37·6	41·5	− 0·3	5	0·38	10	− 17	Clifton ..	2·9	—	38	2	26	*	*	*	*
5. ENGLAND, S.E.																						
a Marlborough	424	47	11–13	27	9th	44·0	34·7	39·5	− 0·2	5	0·20	5	− 17	Worthing ..	2·0	+ 0·2	25	2	23	40·4	− 3·5	46·4	− 1·6
p Salisbury (Wilton)	180	48	11, 13	28	9th	44·9	35·7	40·5	+ 0·1	5	0·66	17	− 9	Marlborough ..	1·9	+ 0·7	26	3	20	39·4	—	45·4	—
a Wisley, Surrey	150	47	13th	25	10th	43·1	34·6	39·0	− 1·8	3	0·10	3	− 12	Salisbury ..	*	*	*	3	21	40·5	*	*	*
a Tunbridge Wells	364	46	13th	24	10th	41·3	32·9	37·3	− 3·7	3	0·10	3	− 18	Wisley ..	1·9	+ 0·5	25	3	14	39·3	− 3·5	44·8	− 1·6
a Margate	51	46	13th	28	10th	41·6	34·1	38·0	− 4·2	3	0·15	4	− 10	Tunbridge Wells	0·5	− 0·9	6	4	15	40·9	− 1·1	45·4	—
														Margate ..	0·7	− 0·7	9	2	20	40·5	− 3·8	45·5	− 1·1
a Dungeness	21	49	7th	26	10th	42·9	34·3	38·8	− 3·8	2	0·05	1	− 16	Folkestone ..	1·7	—	22	*	*	*	*	46·3	—
p St. Leonards	178	—	—	—	—	—	—	—	—	—	—	—	—	St. Leonards ..	—	—	—	—	—	—	—	—	—
p Southampton	64	47	11, 12, 13	29	9th	44·1	36·0	40·2	− 2·5	3	0·54	14	− 9	Southampton ..	1·8	+ 0·2	23	3	20	*	*	*	*
a Ventnor	59	48	11, 13	33	9th	45·4	38·0	41·9	− 2·9	4	0·20	5	− 15	Ventnor ..	2·2	+ 0·4	28	*	*	*	*	*	*
LONDON. a Richmond (Kew Obs.)	18	47	13th	24	10th	42·7	33·9	38·5	− 2·8	2	0·05	1	− 13	Richmond ..	1·6	+ 0·4	21	2	18	38·1	− 4·4	44·6	− 2·1
a Westminster	27	48	12, 13	27	10th	44·1	35·9	40·2	− 2·1	2	0·03	1	− 12	Westminster ..	0·8	+ 0·2	10	4	20	*	*	*	*
ag Greenwich	149	47	13th	22	10th	41·7	33·7	37·9	− 2·3	3	0·04	1	− 10	Greenwich ..	0·8	− 0·3	10	5	12	*	*	*	*
a Hampstead	450	43	11, 12, 13	21	10th	40·9	33·3	37·3	—	3	0·06	2	—	Hampstead ..	1·9	—	25	5	19	*	*	*	*
ag Camden Square	110	48	13th	26	10th	42·9	35·0	39·1	− 2·3	3	0·05	1	− 14	Camden Square	—	—	—	4	24	*	*	*	*
7. a, ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	47	13th	28	9th	42·0	35·0	38·6	− 0·9	4	0·44	11	− 16	Aspatria ..	2·1	+ 1·1	30	3	24	38·6	− 2·6	43·2	− 2·2
p Newton Rigg	558	—	—	—	—	—	—	—	—	—	—	—	—	Newton Rigg ..	—	—	—	—	—	—	—	—	—
p Stonyhurst	375	48	11th	30	9th	42·9	36·1	39·6	− 0·1	2	0·30	8	− 22	Stonyhurst ..	2·2	+ 1·4	30	2	20	*	*	*	*
p Blackpool	66	48	12th	30	9th	44·0	35·7	40·0	− 0·7	4	0·22	6	− 14	Blackpool ..	2·1	+ 1·1	29	5	21	41·5	—	45·6	—
a Southport	37	47	11, 12	31	9th	43·1	35·3	39·4	− 1·4	3	0·24	6	− 14	Southport ..	2·0	+ 1·0	27	2	24	36·7	− 3·3	41·4	− 1·9
														Hoylake ..	2·3	+ 1·1	32	*	*	*	*	*	*
a Liverpool (Bidston)	188	48	11, 13	34	9, 10, 13	43·7	36·1	40·1	− 1·4	3	0·16	4	− 12	Liverpool ..	2·5	—	34	3	25	*	*	*	*
a Hawarden Bridge	22	50	11–13	31	10th	45·6	35·6	40·8	− 1·3	2	0·05	1	− 13	Manchester (City)	0·8	+ 0·6	11	1	27	37·6	− 3·4	43·0	− 2·5
a Manchester (Whit. Pk.)	125	49	12th	30	9th	43·9	35·4	39·8	− 1·1	2	0·23	6	− 14	Whitworth Park	0·5	+ 0·1	7	*	*	*	*	*	*
b, NORTH WALES.																						
p Llandudno	16	52	11th	33	9th	47·1	38·1	42·8	− 0·6	3	0·41	10	− 9	Llandudno ..	2·2	+ 1·0	30	*	*	*	*	*	*
a Holyhead	15	50	11, 12	36	9th	47·3	40·4	44·0	+ 0·1	5	1·19	30	+ 4	Holyhead ..	2·8	—	38	0	32	*	*	*	*
a Beddgelert	309	—	—	—	—	—	—	—	—	—	—	—	—										
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.
8. *a.* SOUTH WALES.																							
a Aberystwyth	59	49	11, 12	32	9th	46·4	38·4	42·6	—	4	0·77	20	—	Aberystwyth ..	2·7	+ 1·5	36	*	*	*	*	*	*
a Rhayader	757	48	12, 13	26	9th	44·1	33·6	39·1	—	6	1·03	26	—	Rhayader ..	2·2	—	29	4	18	*	*	*	*
a St. Ann's Head	149	51	13th	39	9th	47·9	43·3	45·7	+ 0·5	6	1·38	35	+ 7	St. Ann's Head ..	2·9	+ 1·6	38	*	*	*	*	*	*
p Cardiff	202	49	11th	32	9th	44·6	36·0	40·5	- 0·9	3	0·59	15	- 16	Cardiff	2·2	—	29	3	26	40·3	-2·3	45·1	-1·5
b, ENGLAND, S.W.																							
a Bath	66	52	11th	28	9th	47·6	36·3	42·2	+ 0·8	5	0·47	12	- 9	Bath	*	*	*	—	—	40·8	-3·0	45·3	-2·4
a Shaftesbury	722	?48	11th	29	9th	43·3	35·0	39·3	- 0·8	3	0·25	6	- 16	Shaftesbury ..	*	*	*	*	*	40·0	—	44·6	—
a Arlington	613	48	12, 13	30	9th	45·1	38·8	41·1	- 0·4	4	0·43	11	- 30										
a Newquay	190	51	10, 11	35	13th	48·7	40·0	44·5	- 1·4	5	0·76	19	- 8	Newquay ..	2·8	+ 1·2	35	*	*	45·3	—	48·8	—
a Cullompton	202	51	12th	30	9th	47·4	36·0	41·9	+ 0·1	6	0·70	18	- 9	Cullompton ..	2·6	+ 1·4	33	3	21	42·5	*	*	*
a Portland Bill	19	49	11-13	34	9th	47·0	40·9	44·1	- 1·1	5	0·39	10	- 8	Weymouth ..	2·7	—	34	*	*	*	*	*	*
p Plymouth	116	52	11th	33	8, 9	48·6	39·3	44·1	- 0·5	5	1·72	44	+ 14	Plymouth ..	2·3	+ 0·7	29	2	28	43·5	-2·1	47·5	—
a Falmouth	167	53	11, 12	35	9th	49·7	40·3	45·2	- 0·4	7	1·40	36	- 2	Falmouth ..	3·1	+ 1·4	39	2	28	45·7	—	48·4	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	48	13th	35	9th	46·0	38·4	42·4	0·0	6	0·59	15	- 4	Malin Head ..	0·9	—	13	*	*	*	*	*	*
a Blacksod Point ..	37	52	12th	35	7th	48·3	38·0	43·4	- 0·5	7	2·32	59	+ 25	Markree Castle	0·8	- 0·3	11	1	26	41·1	-1·9	45·0	-1·9
p Markree Castle ..	122	49	10, 12, 13	30	8th	46·1	35·3	40·9	+ 0·3	7	1·54	39	+ 12										
b, East .. { *p* Armagh	196	49	13th	31	8th	44·7	35·4	40·2	- 0·1	7	1·04	26	+ 8	Armagh	1·7	+ 0·5	23	2	22	39·9	-2·0	43·7	-1·9
a Donaghadee	39	48	10, 12, 13	33	9, 10	46·4	37·6	42·2	+ 0·4	5	1·81	46	+ 28										
10. IRELAND, S.																							
p Dublin, City	47	53	13th	33	8th	46·7	38·1	42·6	- 0·2	6	0·61	15	+ 1	Trinity Coll. ..	2·0	*	27	4	25	42·1	-0·7	45·1	-0·8
a Birr Castle	175	51	13th	29	8, 9	45·7	35·6	40·9	0·0	7	1·39	35	+ 16	Phœnix Park ..	2·6	+ 1·0	35	4	21	*	*	*	*
a Kilkenny	195	50	10, 12, 13	30	8, 12	47·0	34·6	41·1	0·0	7	1·32	34	+ 14	Dublin City ..	*	*	*	2	29	*	*	*	*
a Waterford	137	50	10, 13	34	8, 9	46·4	37·7	42·2	- 0·8	6	1·88	48	+ 22	Birr Castle ..	2·0	+ 0·6	27	2	22	*	*	*	*
p Seskin, Carrick-on-Suir	535	50	12th	32	8th	46·0	36·4	41·4	—	6	1·74	44	—	Seskin	2·2	—	29	2	28	*	*	*	*
a Cahir	198	52	12, 13	30	8th	47·0	36·4	41·9	+ 0·6	5	1·47	37	—										
a Foynes	50	52	10th	37	8, 9, 12	48·0	39·3	43·8	+ 0·7	7	1·23	31	+ 4										
a Cahirciveen (Val. Obs.)	30	53	10th	38	12th	50·0	41·0	45·7	+ 0·1	7	2·28	58	+ 21	Cahirciveen ..	1·6	+ 0·2	21	0	35	*	*	*	*
a Killarney	174	52	9, 12, 13	32	8, 9	49·9	37·8	44·1	+ 0·4	7	2·17	55	+ 14	Ballinacurra ..	1·6	+ 0·2	21	*	*	*	*	*	*
a Roche's Point	32	51	10, 12, 13	37	9th	48·6	41·6	45·2	+ 0·3	6	3·86	98	+ 68										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	51	10–13	39	8th	49·7	42·4	46·2	- 1·5	6	0·63	16	- 11	Scilly	3·1	+ 1·3	39	*	*	*	*	*	*
a Jersey, St. Aubins ..	25	49	7, 8	35	9th	46·6	39·6	43·2	- 2·4	4	0·28	7	- 18	St. Heliers ..	2·4	+ 0·5	30	*	*	*	*	*	*
a Guernsey (Villa Carey)	180	50	11, 13	37	9, 10	47·7	40·7	44·3	- 1·4	4	0·11	3	- 25	Guernsey† ..	2·2	+ 0·5	28	2	28	45·1	-1·8	48·8	-1·2

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, December 13th, 1919.

DISTRICT AND STATION	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	—	—	6 to 12	38	98	23	9	0	169	15	10	13	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	58	86	22	2	247	11	13	24	22	13	23	35
Aberdeen	153	105	52	—	—	13	1	78	74	15	0	169	11	13	24	21	13	23	45
Edinburgh	485	39	31	—	—	10 to 13	34	81	43	10	0	191	17	13	23	30	13	22	45
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	7, 11 to 13	7	101	34	26	0	200	15	13	22	27	13	22	5
Paisley	188	81	15	—	—	13	4	73	59	32	0	191	13	13	22	28	13	21	50
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	10	1	65	60	42	0	180	11	10	18	18	7	0	30
South Shields	72	61	12	—	—	10, 11	3	67	88	10	0	203	11	10	15	19	10	14	40
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Gorleston	52	42	‡	—	Instrument under alteration.			—	—	—	—	—	—	—	—	—	—	—	—
Shoeburyness	103	90	‡	—	—	7, 8, 10, 11	25	77	48	18	0	180	17	11	7	22	7	8	55
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	10, 11	13	81	49	25	0	157	14	11	5	20	11	3	15
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	10, 11	7	67	80	14	0	—	11	10	24	18	11	2	20
S. Farnboro' (Pyestk Tr)	443	152	‡‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	34	106	28	0	180	8	11	3	14	10	13	30
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	33	75	60	0	157	10	11	3	16	10	17	35
Fleetwood (Cup Anr.) ..	109	44	—	—	—	7, 10, 11, 13	38	84	45	1	0	146	16	10	19	—	—	—	—
Southport	80	62	48	—	—	7, 8, 10, 11, 13	44	81	39	4	0	146	14	10	24	23	11	0	10
Holyhead	60	40	‡	—	—	7, 8, 10, 11, 13	70	79	16	3	0	180	15	13	16	25	10	—	?
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	10, 13,	10	7, 9 to 11, 13	51	66	13	26	2	203	20	13	15	31	7	0	20
Plymouth	185	88	2	10, 11	6	7, 10, 11, 13	36	57	42	27	0	—	21	11	1	26	11	1	10
Lyme Regis	556	61	‡	—	—	7, 10, 11	17	59	36	56	0	—	14	11	2	21	11	1	0
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	—	—	7, 8, 10, 13	18	39	53	8	0	225	16	13	19	—	—	—	—
Quilty	100	40	‡‡	13	1	7, 9 to 13	42	98	21	6	0	—	21	13	15	32	13	14	55
Cahirciveen (Val. Obs.)	98	41	‡‡	—	—	7, 12, 13	17	88	43	20	0	205	14	13	13	25	13	13	35
Weaver Pt.	160	30	‡	—	—	7, 10, 12, 13	29	93	46	0	0	—	16	13	25	22	11	3	20
11. ENGLISH CHANNEL.																			
Scilly	150	32	‡	7	6	7, 8, 10, 13	22	67	57	16	0	315	20	7	1	29	7	0	5

† More exactly the ranges adopted for this classification are > 17·2, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory

* Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FIFTIETH WEEK of 1919—December 7th to December 13th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Mean Pressure at M.S.L.
	At any "D.-V." Station.		Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	Highest	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr	hr.	°/₀	mb.
0. SCOTLAND, NORTH ...	48	25	79·3	74·5	76·9	− 0·1	4	− 5	27	0	5	− 1	1·07	27	− 11	0·9	+0·4	13	1005
Eastern.																			
1. SCOTLAND, EAST ...	48	20	78·2	73·8	76·1	− 0·3	0	− 9	31	− 4	5	+ 1	0·76	19	+ 2	1·7	+0·7	25	1007
2. ENGLAND, N.E.	48	28	78·0	74·1	76·1	− 1·3	0	− 11	31	+ 3	5	+ 1	0·38	10	− 3	1·5	+0·2	20	1010
3. ENGLAND, EAST ...	48	22	78·4	73·3	75·9	− 1·7	0	− 13	33	+ 5	4	0	0·37	9	− 6	1·5	+0·2	20	1013
4. MIDLAND COUNTIES ...	51	25	79·1	74·5	76·9	− 0·4	3	− 10	27	− 4	3	− 1	0·20	5	− 13	1·7	+0·5	22	1012
5. ENGLAND, S.E.	49	24	79·3	74·6	77·1	− 1·5	4	− 16	27	+ 8	3	− 1	0·23	6	− 13	1·6	+0·1	21	1013
Western.																			
6. SCOTLAND, WEST ...	48	27	79·6	75·2	77·5	− 0·3	5	− 8	23	+ 2	5	0	2·12	54	+ 22	2·2	+1·3	31	1009
7. ENGLAND, N.W.	52	28	79·9	75·5	77·8	− 0·3	7	− 7	22	+ 1	3	− 2	0·38	9	− 14	2·2	+1·2	30	1010
8. ENGLAND, S.W.	53	26	81·1	76·2	78·7	− 0·5	20	− 3	12	− 2	5	0	0·84	21	− 10	2·7	+1·3	29	1012
9. IRELAND, NORTH ...	52	29	80·9	75·6	78·4	+ 0·1	12	− 3	23	+ 3	7	+ 2	1·45	37	+ 14	1·3	0·0	17	1006
10. IRELAND, SOUTH ...	53	29	81·7	76·3	79·2	0·0	25	+ 2	11	− 4	6	+ 1	1·80	46	+ 20	2·0	+0·4	26	1009
11. ENGLISH CHANNEL ...	51	35	81·9	77·9	80·0	− 1·2	23	− 13	3	− 1	5	0	0·34	9	− 17	2·6	+0·8	32	1014

THE SEASON (Winter).—Aggregates, &c., for the Period of 2 Weeks, November 30th to December 13th 1919.

0. SCOTLAND, NORTH ...	49	20	79·5	74·6	77·1	+ 0·2	9	− 9	54	− 2	11	− 1	2·69	68	− 12	1·1	+0·5	17	1001
Eastern.																			
1. SCOTLAND, EAST ...	52	15	78·6	73·6	76·2	− 0·2	2	− 15	66	− 3	10	+ 1	1·70	43	+ 2	1·7	+0·6	24	1004
2. ENGLAND, N.E.	55	24	79·4	74·4	77·0	− 0·5	11	− 10	60	+ 6	11	+ 3	0·82	21	− 9	1·4	+0·1	20	1008
3. ENGLAND, EAST ...	55	22	80·3	74·2	77·3	− 0·4	28	+ 1	51	− 4	11	+ 2	2·16	54	+ 23	1·4	+0·1	19	1012
4. MIDLAND COUNTIES ...	56	17	80·5	74·8	77·8	+ 0·4	30	+ 3	44	− 17	10	+ 1	1·53	39	+ 3	1·4	+0·2	19	1011
5. ENGLAND, S.E.	53	24	81·1	75·3	78·4	− 0·3	37	− 4	40	+ 2	10	+ 1	2·28	58	+ 15	1·5	0·0	20	1013
Western.																			
6. SCOTLAND, WEST ...	52	21	80·2	75·3	77·9	0·0	16	− 11	47	+ 7	12	+ 2	4·44	113	+ 41	1·8	+0·8	24	1007
7. ENGLAND, N.W.	55	24	80·8	75·9	78·4	+ 0·2	31	+ 2	34	− 7	10	0	1·45	36	− 13	1·5	+0·5	20	1009
8. ENGLAND, S.W.	55	24	82·1	76·6	79·5	+ 0·2	53	+ 5	20	− 7	12	+ 2	3·57	90	+ 23	2·0	+0·5	26	1013
9. IRELAND, NORTH ...	53	20	81·4	75·4	78·6	+ 0·3	40	+ 10	40	− 1	14	+ 3	3·03	77	+ 27	1·5	+0·2	20	1005
10. IRELAND, SOUTH ...	57	24	82·6	76·2	79·6	+ 0·3	62	+ 14	24	− 6	13	+ 3	3·06	78	+ 23	1·9	+0·3	25	1010
11. ENGLISH CHANNEL ...	54	33	83·0	78·9	81·1	− 0·2	67	− 8	3	− 4	11	0	1·86	48	− 11	2·0	+0·2	25	1016

THE YEAR 1919.—Aggregates, &c., for the Period of 50 Weeks, December 29th, 1918, to December 13th, 1919.

0. SCOTLAND, NORTH ...	78	9	83·0	77·1	79·9	− 0·8	1835	−256	944	+ 231	224	−12	43·33	1103	−138	3·4	+0·2	28	1011
Eastern.																			
1. SCOTLAND, EAST ...	78	−6	83·8	76·4	80·0	− 0·9	2030	−281	1119	+ 282	191	− 8	28·15	721	− 38	3·9	+0·2	32	1012
2. ENGLAND, N.E.	85	11	84·9	77·7	81·1	− 0·7	2470	−200	838	+ 227	192	+12	25·28	643	+ 34	3·9	−0·2	32	1013
3. ENGLAND, EAST ...	88	10	85·6	77·8	81·6	− 0·8	2730	−341	849	+ 211	171	− 5	23·78	606	+ 22	4·3	−0·2	35	1014
4. MIDLAND COUNTIES ...	90	9	85·5	77·6	81·4	− 0·7	2733	−228	904	+ 204	169	− 6	26·51	674	+ 22	4·0	0·0	32	1014
5. ENGLAND, S.E.	86	16	86·1	78·5	82·2	− 0·8	3002	−304	671	+ 190	165	− 7	26·03	659	− 12	4·4	−0·2	36	1014
Western.																			
6. SCOTLAND, WEST ...	83	12	84·5	77·7	81·0	− 0·7	2282	−286	786	+ 241	195	−14	38·60	983	−160	4·2	+0·4	34	1013
7. ENGLAND, N.W.	84	10	84·8	78·5	81·5	− 0·7	2524	−281	683	+ 196	178	−15	28·04	711	−150	4·0	0·0	33	1014
8. ENGLAND, S.W.	86	15	85·7	78·9	82·2	− 0·7	2863	−283	576	+ 197	181	−12	33·62	879	− 67	4·7	+0·3	38	1015
9. IRELAND, NORTH ...	78	12	85·0	78·3	81·5	− 0·6	2484	−197	636	+ 184	218	−11	32·23	813	−115	3·9	+0·3	32	1013
10. IRELAND, SOUTH ...	80	15	85·9	79·0	82·4	− 0·5	2928	−189	551	+ 202	203	− 1	30·58	778	−188	4·2	+0·1	34	1015
11. ENGLISH CHANNEL ...	85	26	86·5	81·2	83·8	− 0·5	3439	−314	170	+ 53	189	−12	35·57	912	+113	5·1	−0·2	42	1016
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm	mm.	hr.	hr.	°/₀	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: December 19th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PRINTED AND PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET, MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 51.

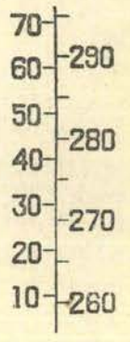
THE FIFTY-FIRST WEEK OF 1919.

SUNDAY, DECEMBER 14TH, TO SATURDAY, DECEMBER 20TH, 1919.

Price 6d. Net, Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d. Net.

I.—GENERAL SUMMARY. [First published in 1878.]

Unsettled weather, with strong winds from between S. and N.W., and frequent rain was general throughout the week. Gales were experienced locally on the 15th, and in most parts of Great Britain on the 18th and 19th. A line-squall passed over England on the 18th, causing loss of life and considerable damage to property and on the same day there was a thunderstorm, with hail, in the west of Scotland and north-west of England. On the evening of the 16th much fog was observed over the south of England, and in the London area it was dense and very wet. The mean temperature was above the normal in all districts, the excess ranging between 1·5 a and 2 a. The maxima were below 283 a until Saturday, when readings above that value became general, the highest being 285 a in various parts of England and 286 a at Killarney. The night minima were not often low, but on the 16th–19th the thermometer in the screen went down to 269 a at Cambridge, while readings of 266 a on the grass were experienced in several places. Rainfall was below the normal in Ireland S. and the Channel but in all other Districts it was in excess, the largest divergence being 16mm. in England N.W. Amounts exceeding 20mm. were recorded on the 15th, in the east of Scotland and north-east of England and also in the south of England. There was a deficiency of bright sunshine in all Districts. Aurora borealis (faint) was witnessed at Carrick-on-Suir on the 15th. Solar halos were seen at Oxford on each day from the 16th to 17th and at Tenbury, Ross-on-Wye and Falmouth on different days, and lunar halos on the 14th at Oxford and Falmouth.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E.† Shoeburyness.		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	24	8·9	19	6·1	17	4·7	16	3·0	20	4·6	13	4·8	24	4·8	22	4·8
North	3	4·7	3	1·3	7	3·9	6	2·8	5	5·9	12	4·5	—	0	4	2·8
West	9	9·0	16	6·5	17	4·9	13	3·9	22	6·0	22	6·7	16	7·8	19	4·8
East	15	6·1	4	4·1	6	2·7	7	1·7	5	2·2	4	4·3	6	2·0	7	1·8
Calm	0	—	4	—	3	—	6	—	1	—	0	—	2	—	0	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Unusual	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Heavy	Heavy	Heavy	Moderate	Heavy	Moderate	Heavy	Heavy	Moderate	Moderate	Moderate	Light
	Sunshine ...	Nought	Moderate	Scanty	Scanty	Scanty	Scanty	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

WINTER. 3 weeks from Nov. 30th, 1919.	Warmth ...	0, 3, 0	1, 2, 0	0, 3, 0	2, 1, 0	2, 1, 0	2, 1, 0	1, 2, 0	2, 1, 0	2, 1, 0	2, 1, 0	2, 1, 0	2, 0, 1
	Rainfall ...	1, 2, 0	1, 2, 0	1, 2, 0	1, 2, 0	2, 0, 1	1, 1, 1	3, 0, 0	1, 1, 1	1, 2, 0	2, 1, 0	2, 1, 0	1, 0, 2
	Sunshine ...	2, 0, 1	2, 1, 0	0, 2, 1	0, 2, 1	1, 1, 1	0, 2, 1	1, 2, 0	1, 2, 0	1, 2, 0	1, 2, 0	0, 3, 0	1, 0, 2

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(26729—19) Wt 162—833/512 12/19 625 H. St. G. 17/ 36

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts	Lowest Reading.	Earth 1 ft. Mean.	Deviation from Average.	Earth 4 ft Mean.	Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.	in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																						
a, Islands.. a Lerwick..	54	47	19,20	36	18th	45·6	39·6	42·7	+ 2·4	6	2·32	59	+ 37									
p Deerness, Orkney	165	48	20th	36	18th	45·1	39·6	42·5	—	7	1·93	49	+ 30	Deerness	0·0	- 0·6	0	•	•	•	•	•
a Stornoway	51	—	—	—	—	—	—	—	—	—	—	—	—	Stornoway	—	—	—	•	•	•	•	•
a Castlebay, Barra I.	37	—	—	—	—	—	—	—	—	—	—	—	—	Castlebay	—	—	—	•	•	•	•	•
b, Mainland. a Wick	81	48	19th	33	18, 19	45·1	36·4	40·9	+ 1·7	6	1·60	41	+ 27									
a Strathpeffer	125	51	19th	31	17th	46·3	35·0	40·9	+ 3·0	5	0·97	25	+ 9									
p Glencarron	500	—	—	—	—	—	—	—	—	—	—	—	—									
a Fort Augustus..	68	—	—	—	—	—	—	—	—	—	—	—	—									
p Fort William	171	50	14, 15	37	18th	47·3	(39·6	43·6	+ 3·7	7	1·61	41	- 5									
1. SCOTLAND, E.																						
a Nairn	82	51	19th	32	17th	47·3	36·1	41·9	+ 4·2	5	0·70	18	+ 8	Nairn	0·7	—	11	•	•	•	•	•
p Gordon Castle	101	50	20th	36	16th	46·3	38·0	42·3	+ 3·6	5	0·62	16	+ 4	Gordon Castle..	0·3	—	5	•	•	•	•	•
a Aberdeen	46	51	19, 20	36	19th	46·7	37·9	42·5	+ 3·9	7	1·81	46	+ 31	Aberdeen	0·5	- 0·5	8	2	30	•	•	•
a Balmoral	930	45	20th	30	16, 17	41·4	33·3	37·5	+ 2·6	6	1·09	28	+ 13	Balmoral	•	•	•	4	26	•	•	40·3	-1·8
p Crieff	432	49	20th	32	16th	45·9	35·9	41·1	+ 3·5	6	1·04	26	+ 5	Crathes	0·9	- 0·1	14	3	24	36·2	-1·2	37·4	-2·9
a Dundee	244	48	19, 20	31	16th	45·3	33·6	39·7	+ 2·0	5	0·77	20	+ 8	Dundee	1·5	—	23	5	25	35·3	•	•	•
a Leith	30	51	19, 20	34	18th	48·1	37·3	42·9	+ 2·9	4	0·79	20	+ 11	Leith	•	•	•	1	27	•	•	•	•
p Edinburgh	441	49	20th	35	19th	46·0	38·1	42·2	+ 3·2	4	0·57	14	+ 4	Edinburgh	0·8	- 0·5	12	1	30	•	•	•	•
a West Linton	769	48	19th	30	17th	44·6	33·7	39·4	+ 4·5	6	1·61	26	—	West Linton	0·4	—	6	5	20	•	•	•	•
p Marchmont	498	50	19th	33	16th	45·9	35·0	40·7	+ 3·6	4	1·32	34	+ 21	Marchmont	0·7	- 0·3	10	•	•	•	•	•	•
6. a, SCOTLAND, W.																						
a Ford (Argyll)	149	50	19th	36	16th	46·8	38·8	43·0	—	7	2·58	66	—	Ford (Argyll)	•	•	•	•	•	39·9	—	40·6	—
p Glasgow Observatory	180	50	20th	36	19th	46·6	39·4	43·1	+ 3·6	7	0·86	22	+ 2	Glasgow	0·2	- 0·3	3	2	30	•	•	•	•
p Rothesay	200	49	20th	35	19th	46·7	39·3	43·2	+ 2·8	7	1·79	45	+ 18	Rothesay	0·4	—	6	0	32	41·0	—	42·3	-1·7
a Kilmarnock	90	49	19th	37	16, 17, 19	47·1	39·0	43·2	+ 4·3	6	1·37	35	+ 15	Kilmarnock	0·2	—	3	•	•	40·0	—	42·4	—
a Colmonell	170	51	19th	38	17, 19	48·1	40·0	44·2	+ 3·7	6	1·41	36	+ 9	Colmonell	•	•	•	0	34	•	•	•	•
p Cally, Gatehouse	120	50	20th	34	17th	46·7	37·9	42·5	+ 3·4	6	1·84	47	+ 20	Dumfries	1·2	—	17	1	30	40·2	+0·4	42·0	-0·9
p Dumfries	160	51	20th	35	16th	47·4	39·7	43·7	+ 5·0	6	1·13	29	+ 10	Eskdalemuir	0·9	—	13	2	27	•	•	•	•
a Eskdalemuir	794	49	19th	30	17th	44·3	34·3	39·5	—	7	1·75	44	—									
b, I. OF MAN p Douglas	277	51	20th	39	16, 19	48·0	41·9	45·1	+ 3·1	6	1·30	33	+ 9	Douglas	1·1	- 0·1	15	0	32	•	•	•	•
2. ENGLAND, N.E																						
a Alnwick Castle	210	53	20th	33	14, 17	47·3	36·3	42·0	+ 3·6	5	1·46	37	+ 23									
a Tynemouth	118	51	20th	35	17th	46·7	37·1	42·1	+ 3·0	4	0·91	23	+ 13									
p Durham	336	51	20th	32	17th	45·9	35·3	40·8	+ 3·2	5	0·72	18	+ 8	Cockle Park	0·7	- 0·7	10	3	26	38·0	0·0	40·3	-1·2
a North .. p Rounton	249	51	20th	33	17th	46·3	35·4	41·1	+ 3·5	6	0·88	22	+ 12	Durham	0·8	- 0·4	11	5	20	•	•	•	•
a West Witton	605	50	19, 20	32	15th	46·0	35·4	40·9	—	4	0·79	20	—	Rounton	•	•	•	6	20	38·5	•	•	•
p Scarborough	100	—	—	—	—	—	—	—	—	—	—	—	—	West Witton	•	•	•	4	27	38·3	—	40·6	—
p York	56	51	20th	35	14, 17	46·9	37·0	42·2	+ 3·7	4	1·14	29	+ 19	Scarborough†	—	—	—	•	•	•	•	•	•
														York	0·4	- 0·3	6	—	—	39·9	-1·2	42·9	-1·6
b, South .. a Spurn Head	26	47	20th	33	17th	43·9	36·9	40·5	+ 0·9	6	0·67	17	+ 8	Spurn Head	•	•	•	•	•	•	•	•	•
a Lincoln	58	51	20th	29	17th	44·3	36·4	40·5	+ 2·5	4	0·62	16	+ 6	Lincoln	•	•	•	2	29	39·6	-0·5	42·5	-2·0
a Fulbeck	180	49	20th	30	17th	45·3	35·9	40·8	+ 2·7	7	0·55	14	+ 3	Fulbeck	0·6	- 0·6	8	•	•	—	—	—	—
														Skegness	—	—	—	•	•	•	•	•	•
3. ENGLAND, E.																						
p Cromer	196	50	20th	28	17th	45·3	34·6	40·2	+ 1·2	7	0·28	7	- 1	Cromer	0·4	- 1·2	5	•	•	•	•	•	•
a Little Massingham	280	48	20th	27	17th	44·6	33·6	39·3	+ 1·5	6	0·39	10	- 1	Lit. Massingham	0·6	- 0·7	8	•	•	•	•	•	•
a Yarmouth	13	49	20th	29	18th	44·9	35·6	40·4	+ 1·5	5	0·29	7	- 3	Yarmouth	0·6	—	8	0	31	41·1	-0·2	44·1	-1·6
a Norwich	93	50	20th	31	17, 18	45·9	35·9	41·1	+ 2·8	7	0·46	12	+ 2	Norwich	0·6	—	8	3	26	38·3	•	•	•
a Geldeston	37	51	20th	28	17th	46·4	34·0	40·5	+ 1·5	5	0·26	7	- 2	Geldeston	0·5	- 1·1	7	•	•	•	•	•	•
p Cambridge	41	52	20th	25	17th	47·3	34·4	41·1	+ 2·7	4	0·19	5	- 2	Cambridge	0·5	- 0·9	7	3	21	40·7	-0·8	44·1	-1·6
a Clacton-on-Sea	54	48	20th	29	17th	45·0	35·6	40·5	+ 1·4	6	0·23	6	- 1	Clacton	0·4	- 1·2	5	2	29	40·7	-2·4	44·5	-2·6
a Rothamsted	424	51	20th	25	17th	46·0	35·3	40·9	+ 2·5	7	0·65	17	+ 6	Rothamsted	0·3	- 1·1	4	3	23	40·0	•	•	•
p Tottenham	51	51	20th	33	16th	48·0	38·1	43·3	—	6	0·37	9	—	Tottenham	0·2	—	3	0	32	•	•	45·3	-1·7
														S'thend-on-Sea	0·1	—	1	0	31	40·8	—	—	—
4. MIDLAND COUNTIES.																						
a North .. a Barrogate	479	49	19, 20	34	14, 17, 19	45·6	36·4	41·2	+ 3·7	6	1·35	34	+ 22	Harrogate	0·6	- 0·6	8	2	28	39·5	-1·0	41·2	-1·2
p Sheffield	429	51	20th	34	17th	46·7	37·6	42·3	—	5	0·98	25	—	Sheffield	0·7	- 0·4	10	2	27	39·6	-0·9	42·9	-1·5
p Buxton	987	48	20th	30	17th	43·4	35·9	39·8	—	7	2·09	53	+ 30	Buxton	0·1	—	1	2	28	37·9	-1·4	41·0	-2·8
b, East .. a Worksop	56	51	20th	29	17th	46·6	36·6	41·8	+ 3·5	4	0·94	24	+ 14	Worksop	0·1	- 0·8	1	5	20	39·8	—	42·2	—
a Nottingham	82	52	20th	29	17th	46·9	36·9	42·1	+ 3·4	4	0·98	25	+ 15	Nottingham	0·0	- 0·9	0	3	27	39·7	-0·2	40·8	-2·2
p Birmingham, Edgbsn.	535	52	20th	32	17th	47·3	37·0	42·4	+ 3·8	5	0·57	15	+ 4	Birmingham	0·6	- 0·3	8	2	27	41·8	-0·4	44·8	-1·4
a Raunds	203	52	20th	26	17th	46·9	34·1	40·8	+ 3·2	5	0·59	15	+ 5	Raunds	0·3	—	4	3	24	40·1	—	44·1	—
p Oxford	208	51	20th	30	17th	48·0	37·6	43·0	+ 3·6	5	0·67	17	+ 7	Oxford	0·8	- 0·5	11	3	27	•	•	•	•
														Malvern	1·3	—	17	2	23	40·5	—	43·1	•
c, West .. a Cheadle (N. Staffs.)	646	49	20th	31	17th	45·6	34·9	40·5	+ 3·2	5	1·05	27	+ 13	Cheadle	•	•	•	4	28	•	•	•	•
p Tenbury	313	54	20th	25	17th	48·9	35·6	42·5	+ 2·9	5	0·47	12	+ 3	Tenbury	•	•	•	3	21	39·9	—	—	—
p Ross-on-Wye	201	54	20th	26	17th	49·3	35·9	42·9	+ 3·5	5	0·35	9	- 3	Ross-on-Wye	1·1	—	14	4	22	—	—	—	—
a Clifton	226	49	15, 20	33	16, 17	47·7	39·1	43·6	+ 2·8	6	0·61	15	- 2	Clifton	0·8	—	11	1	29	•	•	•	•
5. ENGLAND, S.E.																						
a Marlborough	424	54	17th	27	17th	48·3	35·0	41·9	+ 3·8	6	0·78	20	+ 5	Worthing	1·2	- 0·7	16	2	26	42·3	-1·0	45·8	-4·7
p Salisbury (Wilton)	180	51	16, 20	27	17th	49·0	36·9	43·2	+ 4·5	6	1·11	28	+ 11	Marlborough	0·9	- 0·4	12	3	25	41·5	—	45·0	—
a Wisley, Surrey	150	52	20th	29	17th	48·3	37·0	42·9	+ 3·7	5	0·52	13	+ 2	Salisbury	•	•	•	1	27	42·6	—	•	•
a Tunbridge Wells	354	50	20th	28	17th	47·6	35·4	41·7	+ 2·4	5	0·26	7	- 7	Wisley	0·5	- 1·0	6	3	23	41·7	-0·6	44·4	-1·6
a Margate	51	50	20th	31	17th	47·1	36·9	42·2	+ 1·8	3	0·06	2	- 7	Tunbridge Wells	0·7	- 0·8	9	2	23	42·4	+0·5	45·0	—
														Margate	0·6	- 0·9	8	1	28	42·1	-1·8	44·7	-1·7
a Dungeness	21	48	18–20	29	17, 18	47·1	35·6	41·6	+ 0·7	5	0·11	3	- 9	Folkestone	0·0	—	0	•	•	•	•	46·1	—
p St. Leonards	178	—	—	—	—	—	—	—	—	—	—	—	—	St. Leonards	—	—	—	—	—	—	—	—	—
p Southampton	64	52	20th	29	17th	49·0	37·7	43·6	+ 2·6	5	1·18	30	+ 15	Southampton	0·7	- 1·0	9	3	24	•	•	•	•
a Ventnor	59	51	17, 20	37	17th	49·3	41·6	45·6	+ 2·5	5	1·12	29	+ 15	Ventnor	0·9	- 1·0	12	•	•	•	•	•	•
LONDON. a Richmond (Kew Obs.)	18	51	20th	31	17th	48·3	37·3	43·0	+ 3·4	5	0·47	12	+ 3	Richmond	0·2	- 1·1	3	3	25	41·0	-1·1	44·1	-2·2
a Westminster	27	51	20th	32	17th	48·8	38·1	43·7	+ 3·1	6	0·27	7	- 2	Westminster	0·2	- 0·4	3	3	23	•	•	•	•
ag Greenwich	149	52	20th	32	17th	48·1	37·4	43·0	+ 3·4	5	0·22	6	- 5	Greenwich	0·5	- 0·6	7	3	24	•	•	•	•
a Hampstead	450	49	20th	29	17th	46·1	36·6	41·5	—	7	0·51	13	—	Hampstead	0·4	—	5	5	20	•	•	•	•
ag Camden Square	110	51	20th	32	17th	48·4	38·1	43·5	+ 3·8	7	0·40	10	+ 1	Camden Square	—	—	—	2	29	•	•	•	•
7. a, ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	48	20th	35	16, 18, 19	45·9	36·9	41·6	+ 3·0	6	1·09	28	+ 8	Aspatria	0·8	- 0·3	11	2	30	40·5	-0·6	43·0	-2·0
p Newton Rigg	559	48	18, 20	33	16th	45·7	35·9	41·0	+ 3·9	6	1·46	37	+ 18	Newton Rigg	0·6	- 0·5	9	3	24	—	—	—	—
p Stonyhurst	376	49	18th	34	17th	46·4	38·9	42·8	+ 4·1	7	1·84	47	+ 25	Stonyhurst	0·3	- 0·5	4	1	29	•	•	•	•
p Blackpool	66	48	18, 20	32	17th	46·7	38·4	42·7	+ 3·0	7	1·31	33	+ 18	Blackpool	0·6	- 0·5	8	3	28	41·9	—	45·1	—
a Southport	37	48	18, 20	34	17th	46·3	38·4	42·5	+ 2·7	6	1·05	27	+ 13	Southport	0·5	- 0·6	7	2	28	38·5	-1·3	41·0	-1·9
a Liverpool (Bidston)	188	53	20th	35	17th	48·6	38·4	43·7	+ 3·2	5	1·10	28	+ 16	Hoylake	0·4	- 0·9	5	2	28	•	•	•	•
a Hawarden Bridge	22	54	20th	34	17th	50·0	38·0	44·2	+ 3·0	7	1·12	29	+ 19	Liverpool	0·7	—	10	1	29	•	•	•	•
a Mancnester (Whit. Pk.)	125	50	20th	34	17th	47·6	38·9	43·4	+ 3·4	7	1·39	35	+ 21	Manchester (City)	0·0	- 0·2	0	0	32	39·9	-1·0	42·9	-2·3
														Whitworth Park	0·0	- 0·4	0	•	•	•	•	•	•
b. NORTH WALES.																						
p Llandudno	16	54	14th	35	16th	51·7	41·4	46·8	+ 4·3	6	1·19	30	+ 16	Llandudno	1·6	+ 0·3	22	•	•	•	•	•	•
a Holyhead	15	51	18–20	41	16, 17	49·9	43·0	46·6	+ 3·6	7	1·34	34	+ 15	Holyhead	1·0	—	14	0	39	•	•	•	•
a Beddgelert	309	—	—	—	—	—	—	—	—	—	—	—	—										
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average.
8. *a.* SOUTH WALES.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.
a Aberystwyth	59	51	14th	39	16, 17	48·9	41·6	45·4	—	6	1·34	34	—	Aberystwyth ..	1·1	- 0·1	15	*	*	*	*	*	*
a Rhayader	757	51	20th	27	16th†	47·9	35·3	41·9	—	7	2·03	52	—	Rhayader ..	0·6	—	8	3	19	*	*	*	*
a St. Ann's Head	149	51	18th	43	16, 17	49·6	45·4	47·6	+ 3·3	7	0·75	19	- 1	St. Ann's Head	1·2	- 0·2	16	*	*	*	*	*	*
p Cardiff	202	49	18, 20	32	17th	47·9	38·4	43·3	+ 2·8	6	0·65	17	- 5	Cardiff	0·6	—	8	2	25	41·2	-1·0	44·7	-1·5
b ENGLAND, S.W.																							
a Bath	66	52	18, 20	28	17th	50·7	37·7	44·5	+ 4·0	5	0·47	12	- 3	Bath	*	*	*	—	—	42·4	-1·2	‡45·1	-2·1
a Shaftesbury	722	49	20th	38	16, 19	47·0	39·1	43·2	+ 4·1	6	0·57	15	- 1	Shaftesbury ..	*	*	*	*	*	41·3	—	44·5	—
a Arlington	613	49	14, 18–20	34	16, 17	48·4	39·4	44·1	+ 3·5	7	1·94	49	+ 19										
a Newquay	190	51	20th	35	16, 17	49·5	40·9	45·4	+ 0·3	5	0·72	18	- 1	Newquay ..	1·3	- 0·3	17	*	*	44·8	—	48·3	—
a Cullompton	202	52	20th	29	17th	49·9	36·6	43·5	+ 2·6	6	0·78	20	0	Cullompton ..	0·5	- 0·8	6	3	28	43·5	*	*	*
a Portland Bill	19	52	15, 20	39	17th	50·9	43·3	47·3	+ 3·0	3	0·28	7	- 6	Weymouth ..	0·9	—	11	*	*	*	*	*	*
p Plymouth	116	52	20th	33	16th	50·3	41·3	46·0	+ 2·2	7	0·54	14	- 8	Plymouth ..	1·1	- 0·5	14	0	31	?44·2	-1·1	?47·4	—
a Falmouth	167	54	20th	37	17th	51·0	41·3	46·3	+ 1·5	7	1·90	48	+ 20	Falmouth ..	1·5	- 0·3	19	2	28	45·1	—	47·8	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	51	14th	35	19th	48·3	38·1	43·4	+ 1·1	5	0·87	22	+ 4	Malin Head ..	0·8	—	12	*	*	*	*	*	*
{ *a* Blacksod Point ..	37	51	14, 18–20	32	14th	50·0	37·9	44·2	+ 0·3	7	0·91	23	- 9	Markree Castle	1·3	+ 0·3	18	2	26	42·1	-0·5	45·0	-1·5
{ *p* Markree Castle ..	122	53	18, 20	28	16th	50·3	38·3	44·5	+ 4·0	7	0·89	23	- 2										
b, East .. { *p* Armagh	196	51	18, 20	36	14, 16	48·6	40·0	44·5	+ 4·3	6	0·73	19	+ 3	Armagh	0·3	- 0·8	4	0	33	41·4	-0·3	43·7	-1·5
{ *a* Donaghadee	39	53	19th	36	16, 17, 19	49·3	38·7	44·2	+ 2·5	6	1·67	42	+ 25										
10. IRELAND, S.																							
p Dublin, City	47	54	18th	37	16th	50·3	41·9	46·3	+ 3·9	4	0·92	23	+ 10	Trinity Coll. ..	0·8	*	11	4	22	43·0	+0·5	45·0	-0·4
a Birr Castle	175	52	18, 19	32	17th	49·0	38·0	43·7	+ 3·2	6	0·91	23	+ 5	Phœnix Park ..	1·4	- 0·1	19	2	24	*	*	*	*
a Kilkenny	195	53	18th	28	16th	49·7	36·3	43·3	+ 2·7	6	0·86	22	+ 3	Dublin City ..	*	*	*	1	30	*	*	*	*
a Waterford	137	53	18–20	30	16th	49·9	38·6	44·5	+ 1·9	5	1·10	28	+ 3	Birr Castle ..	1·6	+ 0·2	22	3	25	*	*	*	*
p Seskin, Carrick-on-Suir	535	53	18th	35	16th	49·3	40·9	45·3	—	7	0·67	17	—	Seskin	1·0	—	14	1	23	*	*	*	*
a Cahir	199	53	19, 20	28	16th	50·4	36·3	43·6	+ 2·8	6	0·75	19	—										
a Foynes	50	53	18, 20	37	16th	50·9	40·6	46·0	+ 3·3	6	0·84	21	- 5										
a Cahirciveen (Val. Obs.)	30	53	18, 20	35	16, 17	51·1	41·7	46·6	+ 1·3	5	1·14	29	- 7	Cahirciveen ..	0·6	- 0·7	8	?	?	*	*	*	*
a Killarney	174	55	19, 20	33	16th	52·2	40·4	46·5	+ 3·1	5	1·01	26	- 13	Ballinacurra ..	1·3	- 0·1	17	*	*	*	*	*	*
a Roche's Point	32	54	18th	33	16, 17	51·0	40·0	45·7	+ 1·2	6	0·58	15	- 14										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	52	20th	44	16, 17	50·9	45·6	48·4	+ 1·5	6	0·31	8	- 9	Scilly	1·5	- 0·2	19	*	*	*	*	*	*
a Jersey, St. Aubins ..	25	52	20th	36	17th	50·0	42·0	46·2	+ 1·7	5	0·83	21	+ 5	St. Heliers ..	0·3	- 1·5	4	*	*	*	*	*	*
a Guernsey (Villa Carey)	180	51	18–20	38	17th	50·0	44·6	47·4	+ 2·8	6	0·50	13	- 5	Guernsey† ..	0·2	- 1·4	3	1	25	45·9	-0·6	48·3	-1·1

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, December 20th, 1919.

DISTRICT AND STATION	Height. Above Mean Sea Level	Above Ground.	Above Building.	Distribution of Wind.† More than 17 m/s or 39 mi/hr. Dates of Occurrence.	Duration.	11 to 17 m/s. 25 to 38 mi/hr. Dates of Occurrence.	Duration.	6 to 10 m/s. Duration.	2 to 5 m/s. Duration.	Less than 2 m/s. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Veer from N.	Speed.	Mid Time.		Highest Gust. Speed.	Date		
														day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.						
Deerness (Cup Anr.)** ..	188	16	5	15, 13, 19	10	13 to 19	81	65	12	0	0	281	22	19	1	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	63	70	28	7	281	10	19	9	28	19	6	30
Aberdeen	153	105	52	19	3	14, 15, 18, 19	21	64	69	21	0	293	20	19	7	29	19	7	15
Edinburgh	485	39	31	—	—	14 to 20	37	69	44	18	0	191	17	18	13	30	18	12	45
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	19	6	15, 17 to 19	31	51	61	19	0	300	20	19	9	29	19	9	0
Paisley	188	81	15	—	—	18, 19	14	53	73	28	0	315	13	19	9	31	19	3	35
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	19	3	46	74	36	9	315	12	19	11	31	18	16	55
South Shields	72	61	12	—	—	18, 19	18	35	89	26	0	304	14	19	9	30	18	17	20
Spurn Head	66	40	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Gorleston	52	42	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Shoeburyness	103	90	‡	—	—	18, 19	14	65	74	15	0	326	14	19	15	29	18	21	20
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	18	1	68	51	48	0	293	11	18	20	26	18	20	5
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	18, 19	5	56	62	45	0	—	12	19	13	25	18	21	25
S. Farnboro' (Pyestk Tr)	443	152	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	28	91	46	3	293	10	18	21	21	19	13	10
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	18	1	43	87	37	0	259	12	18	19	21	19	5	40
Fleetwood (Cup Anr.) ..	109	44	—	18, 19	15	14, 15, 18, 19	15	77	56	5	0	293	24	18	20	—	—	—	—
Southport	80	62	48	18, 19	16	14, 15, 18 to 20	20	81	51	0	0	293	24	19	5	35	18	17	30
Holyhead	60	40	‡	18, 19	15	14, 15, 18 to 20	22	86	40	5	0	304	21	18	18	30	18	17	0
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	Instrument under repair.			—	—	—	—	—	—	—	—	—	—	—	—
Plymouth	185	88	2	—	—	14, 15	19	51	70	28	0	—	16	15	1	20	14	23	25
Lyme Regis	556	61	‡	—	—	14, 18, 19	14	50	36	68	0	—	16	18	23	24	18	22	50
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	18	3	14, 15, 17 to 20	34	66	58	7	0	236	21	18	14	—	—	—	—
Quilty	100	40	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cahirciveen (Val. Obs.)	98	41	‡	—	—	14, 18	17	83	60	8	0	160	15	14	17	26	14	18	35
Weaver Pt.	160	30	‡	14	3	14, 16 to 19	39	74	52	0	0	—	18	14	18	27	18	19	15
11. ENGLISH CHANNEL																			
Scilly	150	32	‡	—	—	14, 18, 19	31	56	52	23	6	315	17	18	19	23	18	18	30

† More exactly the ranges adopted for this classification are > 17·2, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory
* Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FIFTY-FIRST WEEK of 1919—December 14th to December 20th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Mean Pressure at M.S.L.
	At any "D.-V." Station.		Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr	hr.	%	mb.
0. SCOTLAND, NORTH ...	51	31	80·8	76·2	78·6	+ 1·6	11	+ 1	12	−17	6	+ 1	1·63	41	+ 13	0·0	− 0·6	0	1004
Eastern.																			
1. SCOTLAND, EAST ...	51	30	80·7	75·2	78·0	+ 1·8	11	+ 3	25	−13	5	+ 1	1·05	27	+ 13	0·9	−0·1	13	1008
2. ENGLAND, N.E.	53	29	80·7	75·4	78·2	+ 1·4	11	+ 2	24	− 6	5	+ 1	0·87	22	+ 11	0·6	−0·5	9	1013
3. ENGLAND, EAST ...	52	25	80·7	74·8	77·9	+ 1·1	11	+ 1	28	− 5	6	+ 2	0·35	9	0	0·4	−1·0	6	1017
4. MIDLAND COUNTIES ...	54	25	81·5	75·4	78·6	+ 1·9	25	+ 14	16	−19	5	+ 1	0·76	19	+ 8	0·6	−0·5	8	1016
5. ENGLAND, S.E.	54	27	82·0	75·8	79·1	+ 1·4	27	+ 13	14	−10	5	+ 2	0·62	16	+ 3	0·6	−0·9	8	1018
Western.																			
6. SCOTLAND, WEST ...	51	34	81·4	77·2	79·4	+ 1·7	21	+ 9	7	−16	6	+ 2	1·54	39	+ 12	0·7	−0·2	9	1011
7. ENGLAND, N.W.	54	32	81·9	76·8	79·4	+ 1·8	24	+ 12	9	−15	6	+ 2	1·30	33	+ 16	0·7	−0·3	10	1014
8. ENGLAND, S.W.	54	27	82·7	77·3	80·1	+ 1·4	29	+ 11	6	−10	6	+ 2	0·99	25	+ 3	1·0	−0·4	14	1017
9. IRELAND, NORTH ...	53	28	82·6	76·6	79·7	+ 1·5	29	+ 15	10	−10	6	+ 1	0·98	25	+ 4	0·8	−0·3	11	1010
10. IRELAND, SOUTH ...	55	28	83·3	77·1	80·3	+ 1·3	33	+ 11	8	− 7	5	0	0·90	23	− 2	1·2	−0·2	17	1015
11. ENGLISH CHANNEL ...	52	36	83·2	79·7	81·5	+ 0·9	37	+ 6	0	− 4	6	+ 1	0·55	14	− 3	0·7	−1·0	8	1020

THE SEASON (Winter).—Aggregates, &c., for the Period of 3 Weeks, November 30th to December 20th, 1919.

0. SCOTLAND, NORTH ...	51	20	79·9	75·1	77·6	+ 0·7	20	− 8	66	− 19	17	0	4·32	109	+ 1	0·7	+0·1	12	1002
Eastern.																			
1. SCOTLAND, EAST ...	52	15	79·3	74·1	76·8	+ 0·5	13	− 12	91	− 16	15	+ 2	2·75	70	+ 15	1·4	+0·3	21	1005
2. ENGLAND, N.E.	55	24	79·8	74·7	77·4	+ 0·2	22	− 8	84	0	16	+ 4	1·69	43	+ 2	1·2	0·0	16	1009
3. ENGLAND, EAST ...	55	22	80·4	74·4	77·5	+ 0·1	39	+ 2	79	− 9	17	+ 4	2·51	63	+ 23	1·1	−0·3	15	1014
4. MIDLAND COUNTIES ...	56	17	80·8	75·0	78·0	+ 0·9	55	+ 17	60	− 36	15	+ 2	2·29	58	+ 11	1·2	0·0	15	1013
5. ENGLAND, S.E.	54	24	81·4	75·4	78·6	+ 0·3	64	+ 9	54	− 8	15	+ 3	2·90	74	+ 18	1·2	−0·3	16	1014
Western.																			
6. SCOTLAND, WEST ...	52	21	80·6	75·9	78·4	+ 0·6	37	− 2	54	− 9	18	+ 4	5·98	152	+ 53	1·4	+0·4	19	1008
7. ENGLAND, N.W.	55	24	81·1	76·2	78·7	+ 0·7	55	+ 14	43	− 22	16	+ 2	2·75	69	+ 3	1·2	+0·1	17	1011
8. ENGLAND, S.W.	55	24	82·3	76·8	79·7	+ 0·6	82	+ 16	26	− 17	18	+ 4	4·56	115	+ 26	1·7	+0·2	22	1014
9. IRELAND, NORTH ...	53	20	81·8	75·8	78·9	+ 0·6	69	+ 25	50	− 11	20	+ 4	4·01	102	+ 31	1·3	+0·1	17	1006
10. IRELAND, SOUTH ...	57	24	82·8	76·5	79·8	+ 0·6	95	+ 25	32	− 13	18	+ 3	3·72	94	+ 14	1·6	+0·1	22	1011
11. ENGLISH CHANNEL ...	54	33	83·0	79·2	81 2	+ 0·1	104	− 2	3	− 8	17	+ 1	2·41	62	− 14	1·6	−0·2	19	1017

THE YEAR 1919.—Aggregates, &c., for the Period of 51 Weeks, December 29th, 1918, to December 20th, 1919.

0. SCOTLAND, NORTH ...	78	9	83·0	77·0	79·9	− 0·7	1846	−255	956	+ 214	230	−11	44·96	1144	−125	3·4	+0·3	27	1011
Eastern.																			
1. SCOTLAND, EAST ...	78	−6	83·7	76·4	79·9	− 0·9	2041	−278	1144	+ 269	196	− 7	29·20	748	− 25	3·9	+0·2	32	1012
2. ENGLAND, N.E.	85	11	84·8	77·6	81·1	− 0·6	2481	−198	862	+ 221	197	+13	26·15	665	+ 45	3·9	−0·1	32	1013
3. ENGLAND, EAST ...	88	10	85·5	77·7	81·5	− 0·8	2741	−340	877	+ 206	177	− 3	24·13	615	+ 22	4·2	−0·2	35	1014
4. MIDLAND COUNTIES ...	90	9	85·4	77·5	81·4	− 0·6	2758	−214	920	+ 185	174	− 5	27·27	693	+ 30	3·9	0·0	32	1014
5. ENGLAND, S.E.	86	16	86·0	78·5	82·1	− 0·8	3029	−291	685	+ 180	170	− 5	26·65	675	− 9	4·4	−0·2	36	1014
Western.																			
6. SCOTLAND, WEST ...	83	12	84·4	77·7	80·9	− 0·7	2303	−277	793	+ 225	201	−12	40·14	1022	−148	4·1	+0·3	34	1013
7. ENGLAND, N.W.	84	10	84·7	78·4	81·5	− 0·6	2548	−269	692	+ 181	184	−13	29·34	744	−134	4·0	0·0	33	1014
8. ENGLAND, S.W.	86	15	85·7	78·8	82·1	− 0·7	2892	−272	582	+ 187	187	−10	35·61	904	− 64	4·6	+0·2	38	1015
9. IRELAND, NORTH ...	78	12	84·9	78·3	81·5	− 0·5	2513	−182	646	+ 174	224	−10	33·21	838	−111	3·8	+0·2	31	1013
10. IRELAND, SOUTH ...	80	15	85·9	79·0	82·3	− 0·5	2961	−178	559	+ 195	208	− 1	51·24	794	−197	4·2	+0·2	34	1015
11. ENGLISH CHANNEL ...	85	26	86·5	81·2	83·7	− 0·5	3476	−308	170	+ 49	195	−11	36·12	926	+110	5·0	−0·2	41	1016
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: December 19th, 1919.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PRINTED AND PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET, MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

FORTY-SECOND YEAR. *Vol. XXXVI. (New Series.)* } No. 52.

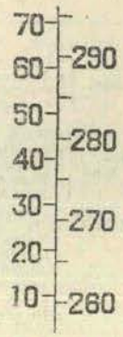
THE FIFTY-SECOND WEEK OF 1919.

SUNDAY, DECEMBER 21ST, TO SATURDAY, DECEMBER 27TH, 1919.

Price 6d. Net, Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d. Net.

I.—GENERAL SUMMARY. [First published in 1878.]

In most parts of England and Ireland the week was characterised by westerly winds, mild weather and frequent rain. In Scotland the air was considerably colder. Barometric pressure was persistently high over the Azores and the Bay of Biscay; depressions from the Atlantic moved along our western coasts, secondary systems passing more directly over the United Kingdom. Strong winds from S. veering to W. and in some districts to N.W., were prevalent throughout the week, and there were gales on several days, particularly on the west coast of England. The day temperatures over England were high on the earlier and later days, readings of 285 a being general, but between the 24th and 26th they were lower. The minima for the week were recorded almost invariably on the 26th, when the thermometer in the screen went down to about 269 a at inland stations in eastern England, and to about 264 a at some high-level stations in Scotland; there were readings of 261 a on the grass the same morning. Rainfall was just equal to the normal in Scotland E. and in Ireland S., but in all other Districts there was more than the normal; in Ireland N. and England N.W. the excess was large. At many stations in the last-named Districts and also at Cheadle (Staffs.) the measurements for the 22nd were between 20mm. and 30mm. There were some bright periods during the week; in some parts of England there were about 3 hours of bright sunshine on the 24th and again on the 27th; the daily mean, however, was about normal. Thunder and lightning occurred in Scotland W. on the 21st and over the west and south-west of England on the 24th and 25th. "Snow-lying" was reported in the Highlands of Scotland throughout the week. Solar halos were observed at Oxford each day from the 22nd to the 26th (frequently with parhelia), and also at Ross-on-Wye on the 22nd and at Tenbury on the 24th; there was a lunar halo at Oxford on the 27th and the zodiacal light was seen at the same station on the 21st.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E.† Shoeburyness.		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency. (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	11	3·8	21	3·2	17	3·1	17	3·1	13	3·8	—	—	23	5·1	20	5·4
North	15	3·6	2	2·7	8	3·1	6	2·0	12	4·5	—	—	2	2·6	5	3·2
West	20	5·1	22	5·9	26	6·2	26	4·6	26	9·4	—	—	25	10·1	25	10·7
East	5	8·3	2	8·5	1	2·0	0	—	2	2·2	—	—	1	1·1	2	1·1
Calm	1	—	2	—	0	—	1	—	0	—	—	—	1	—	1	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Deficient	Moderate	Unusual	Unusual	Unusual	Moderate	Moderate	Unusual	Unusual	Moderate	Unusual
	Rainfall ...	Moderate	Moderate	Heavy	Very heavy	Heavy	Heavy	Heavy	Very heavy	Heavy	Very heavy	Moderate	Heavy
	Sunshine ...	Moderate	Abundant	Moderate	Moderate	Moderate	Scanty	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

WINTER. 4 weeks from Nov. 30th, 1919.	Warmth ...	0, 3, 1	1, 2, 1	0, 4, 0	3, 1, 0	3, 1, 0	3, 1, 0	1, 3, 0	2, 2, 0	3, 1, 0	3, 1, 0	2, 2, 0	3, 0, 1
	Rainfall ...	1, 3, 0	1, 3, 0	2, 2, 0	2, 2, 0	3, 0, 1	2, 1, 1	4, 0, 0	2, 1, 1	2, 2, 0	3, 1, 0	2, 2, 0	2, 0, 2
	Sunshine ...	2, 1, 1	3, 1, 0	0, 3, 1	0, 3, 1	1, 2, 1	0, 2, 2	1, 3, 0	1, 3, 0	1, 3, 0	1, 3, 0	0, 4, 0	1, 0, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(26776—19) Wt 162—833/512 1/20 625 H. St. G. 17/ 36

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

[TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of R in Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
0. SCOTLAND, N.																							
a, Islands.. *a* Lerwick	54	45	22nd	28	26th	39·4	32·6	36·1	- 3·7	5	0·61	16	- 8										
p Deerness, Orkney ..	165	43	21, 27	29	25, 26	39·9	32·7	36·4	—	7	2·16	55	+ 34	Deerness ..	0·7	+ 0·1	12	•	•	•	•	•	•
a Stornoway	51	44	26th	26	26th	39·6	31·4	35·7	- 4·1	7	1·93	49	+ 18	Stornoway ..	0·3	- 0·3	5	•	•	•	•	•	•
a Castlebay, Barra I. ..	37	—	—	—	—	—	—	—	—	—	—	—	—	Castlebay ..	—	—	—	•	•	•	•	•	•
b, Mainland. *a* Wick	81	43	27th	23	26, 27	37·9	27·1	32·7	- 6·0	6	1·26	32	+ 17										
a Strathpeffer	125	39	23, 26, 27	22	26, 27	36·0	27·1	31·7	- 5·8	5	1·15	29	+ 11										
p Glencarron	500	44	27th	23	25, 26	39·6	30·1	35·0	- 2·6	5	1·66	42	- 12										
a Fort Augustus.. ..	88	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William	171	44	27th	24	25th	40·7	30·9	36·0	- 3·5	6	1·91	49	- 3										
1. SCOTLAND, E.																							
a Nairn	82	40	27th	26	26, 27	36·6	29·3	33·1	- 4·2	4	0·47	12	0	Nairn	0·7	—	11	•	•	•	•	•	•
p Gordon Castle..	101	42	21st	23	25th	38·0	29·4	33·9	- 4·4	5	0·46	12	- 1	Gordon Castle..	0·7	—	11	•	•	•	•	•	•
a Aberdeen	46	42	27th	25	27th	38·1	30·9	34·6	- 3·5	6	0·46	12	- 4	Aberdeen ..	1·4	+ 0·4	22	5	17	•	•	40·5	-1·0
a Balmoral	930	38	23rd	14	26th	33·7	25·0	29·5	- 5·0	3	0·34	9	- 8	Balmoral ..	•	•	•	7	12	•	•	•	•
p Crieff	432	43	21st	22	26th	38·4	28·7	33·7	- 3·5	4	0·81	21	- 3	Crathes	1·4	+ 0·3	21	7	14	34·5	-2·2	37·9	-1·6
a Dundee	244	41	21st	20	26th	37·3	26·7	32·2	- 5·1	3	0·54	14	+ 1	Dundee	1·7	—	26	6	15	35·7	•	•	•
a Leith	30	45	23, 27	26	26, 27	41·1	32·4	36·9	- 2·7	5	0·59	15	+ 5	Leith	•	•	•	—	—	•	•	•	•
p Edinburgh	441	44	21, 27	26	26th	39·1	32·0	35·7	- 2·8	6	0·52	13	+ 2	Edinburgh ..	1·2	0·0	18	5	19	•	•	•	•
a West Linton	789	41	26th	16	26th	37·4	27·4	32·6	- 1·9	6	1·22	31	—	West Linton ..	0·8	—	12	4	10	•	•	•	•
p Marchmont	498	42	21st	22	26th	38·3	28·7	33·7	- 3·0	5	0·49	12	- 2	Marchmont .	1·2	+ 0·2	17	•	•	•	•	•	•
6. a, SCOTLAND, W.																							
a Ford (Argyll)	149	46	26th	19	26th	41·7	32·2	37·1	—	6	3·01	76	—	Ford (Argyll) ..	•	•	•	•	•	38·3	—	41·4	—
p Glasgow Observatory	180	45	21, 27	26	26th	41·0	32·6	37·0	- 2·1	6	1·31	33	+ 11	Glasgow.. ..	0·8	+ 0·4	12	3	17	•	•	•	•
p Rothesay	200	44	21st	26	26th	41·1	31·6	36·5	- 3·5	6	2·37	60	+ 31	Rothesay ..	0·4	—	6	4	20	38·4	—	42·6	-1·0
a Kilmarnock	90	47	26th	21	26th	42·6	32·7	37·9	- 0·5	6	1·64	42	+ 20	Kilmarnock ..	0·3	—	4	•	•	39·0	—	42·7	—
a Colmonell	170	48	26th	24	26, 27	43·4	33·6	38·7	- 1·2	5	1·60	41	+ 12	Colmonell ..	•	•	•	1	22	•	•	•	•
p Cally, Gatehouse ..	120	43	23rd	20	26th	41·3	33·4	37·5	- 1·3	4	1·68	43	+ 13	Dumfries ..	1·3	—	19	3	18	38·8	-0·6	42·0	-0·4
p Dumfries	160	49	21st	21	26th	42·3	31·3	37·0	- 1·4	5	1·29	33	+ 12	Eskdalemuir ..	0·9	—	13	—	—	•	•	•	•
a Eskdalemuir	794	44	26th	14	26th	38·9	27·3	33·3	—	6	1·89	48	—										
b, I. OF MAN *p* Douglas	277	50	21st	31	28th	46·0	36·1	41·3	- 0·3	4	1·78	45	+ 19	Douglas	1·3	+ 0·3	18	1	26	•	•	•	•
2. ENGLAND, N.E.																							
a Ainwick Castle ..	210	44	21, 23, 26	24	26th	41·8	34·3	38·2	+ 0·1	2	0·64	16	+ 2										
a Tynemouth	118	45	21st	28	27th	42·7	34·0	38·5	- 0·3	4	0·41	10	0	Cockle Park ..	1·5	+ 0·1	22	5	19	36·0	-1·5	40·2	-0·9
p Durham	336	48	21st	24	26th	41·3	31·3	36·5	- 0·8	3	0·43	11	+ 1	Durham ..	1·1	- 0·1	16	5	13	•	•	•	•
a North .. *p* Rounton	249	50	21st	23	26th	42·0	31·6	37·0	- 0·3	4	0·58	15	+ 5	Rounton ..	•	•	•	7	11	37·9	•	•	•
a West Witton	605	44	21, 26	24	26, 27	41·1	31·7	36·6	—	6	1·26	32	—	West Witton ..	•	•	•	5	19	38·1	—	40·8	—
p Scarborough	100	—	—	—	—	—	—	—	—	—	—	—	—	Scarborough† ..	—	—	—	•	•	•	•	•	•
p York	56	51	21st	26	26th	43·3	33·9	38·8	+ 0·6	6	0·89	23	+ 12	York	?	?	?	—	—	39·7	-0·8	42·9	-1·0
b, South .. *a* Spurn Head	26	47	21st	31	26th	43·3	35·0	39·3	+ 0·1	5	0·79	20	+ 11	Spurn Head ..	•	•	•	•	•	•	•	•	•
a Lincoln	58	50	21st	27	26th	45·6	35·6	40·8	+ 3·1	6	1·05	27	+ 17	Lincoln	•	•	•	2	23	38·8	-0·7	42·6	-1·1
a Fulbeck	180	49	21, 23	27	26th	45·0	34·7	40·1	+ 2·3	6	0·84	21	+ 10	Fulbeck	1·0	- 0·2	14	•	•	—	—	—	—
														Skegness ..	—	—	—	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	—	—	—	—	—	—	—	—	6	0·78	20	+ 10	Cromer	1·3	+ 0·1	18	•	•	•	•	•	•
a Little Massingham ..	280	48	21, 23	24	26th	43·9	31·9	38·1	+ 0·8	4	1·09	28	+ 14	Lit. Massingham	1·0	0·0	14	•	•	•	•	•	•
a Yarmouth	13	51	21st	28	27th	46·1	34·0	40·3	+ 1·9	6	0·91	23	+ 11	Yarmouth ..	1·9	—	26	1	27	41·3	+0·8	44·3	-0·8
a Norwich	93	50	23rd	28	26th	45·9	35·3	40·8	+ 3·0	7	1·08	27	+ 14	Norwich ..	1·5	—	20	3	22	37·4	•	•	•
a Geldeston	37	51	21, 23	27	26th	47·0	33·7	40·6	+ 2·1	6	0·85	22	+ 11	Geldeston ..	1·5	+ 0·3	20	•	•	•	•	•	•
p Cambridge	41	53	23rd	25	26th	47·0	35·9	41·7	+ 3·7	5	1·00	25	+ 15	Cambridge ..	1·2	+ 0·1	16	3	19	40·9	+0·1	44·2	-0·8
a Clacton-on-Sea ..	54	52	23rd	30	26, 27	46·9	35·3	41·3	+ 2·7	6	0·84	21	+ 12	Clacton	0·9	- 0·4	12	1	26	41·0	-1·3	44·7	-1·8
a Rothamsted	424	52	23rd	27	26th	47·7	35·3	41·8	+ 3·9	6	0·96	24	+ 10	Rothamsted ..	1·1	- 0·1	14	3	19	40·6	•	•	•
p Tottenham	51	54	23rd	32	26th	49·0	39·7	44·5	—	6	0·55	14	—	Tottenham ..	0·7	—	9	1	30	•	•	45·3	-1·1
														S'thend-on-Sea	0·4	—	5	1	30	40·9	-1·0	—	—
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	45	26th	27	26th	41·6	33·6	37·8	+ 0·7	6	1·22	31	+ 15	Harrogate ..	1·3	+ 0·2	18	2	23	39·5	-0·6	41·5	-0·5
p Sheffield	429	50	21, 23	29	26th	44·6	34·4	39·7	—	7	1·42	36	—	Sheffield.. ..	1·0	0·0	14	2	24	39·5	-0·4	42·8	-1·1
p Buxton	987	45	21, 23, 27	27	26th	41·4	33·4	37·6	—	7	3·11	79	+ 48	Buxton	0·5	—	7	1	24	38·4	-0·6	40·7	-2·8
b, East .. *a* Worksop	56	50	21st	26	26th	45·4	34·9	40·4	+ 2·5	6	1·09	28	+ 15	Worksop ..	1·0	+ 0·2	14	5	15	38·8	—	42·1	—
a Nottingham	82	50	21, 23	29	26, 27	46·0	35·6	41·0	+ 2·7	6	1·22	31	+ 18	Nottingham ..	0·6	- 0·2	8	4	20	38·8	-0·5	41·1	-1·3
p Birmingham, Edgbsn.	535	52	23rd	32	26th	47·0	36·4	41·9	+ 3·7	6	1·42	36	+ 21	Birmingham ..	1·1	+ 0·3	15	2	26	41·7	0·0	44·8	-1·1
a Raunds	203	52	23rd	26	26th	48·3	34·7	41·8	+ 4·6	7	0·87	22	+ 9	Raunds	1·3	—	18	3	20	40·6	—	43·8	—
p Oxford	208	54	23rd	29	26th	48·6	37·0	43·0	+ 4·0	6	0·86	22	+ 8	Oxford	1·8	+ 0·6	24	2	22	•	•	•	•
														Malvern ..	1·3	—	18	—	—	41·7	—	43·5	•
a Cheadle (N. Staffs.) ..	646	48	22nd	28	26th	44·3	34·1	39·4	+ 2·5	5	2·12	54	+ 36	Cheadle	•	•	•	4	26	•	•	•	•
c, West .. *p* Tenbury	313	55	23rd	28	26th	49·6	35·9	43·0	+ 3·8	6	0·67	17	+ 5	Tenbury	•	•	•	2	22	41·0	—	—	—
p Ross-on-Wye	201	55	23rd	29	26th	50·4	37·3	44·1	+ 5·1	5	0·59	13	- 3	Ross-on-Wye ..	1·7	—	22	1	23	—	—	—	—
a Clifton	229	50	21, 24, 27	31	26th	48·0	39·9	44·1	+ 3·8	6	1·47	37	+ 15	Clifton	1·3	—	17	1	28	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	54	21st	26	26th	48·6	36·9	43·0	+ 4·9	6	1·06	27	+ 9	Worthing ..	1·1	- 0·4	14	2	25	42·3	-0·1	45·6	-1·2
p Salisbury (Wilton) ..	180	53	22, 23	29	26th	49·7	37·9	44·0	+ 5·3	7	1·76	45	+ 24	Marlborough ..	0·9	- 0·1	12	2	21	41·6	—	45·0	—
a Wisley, Surrey ..	150	54	23rd	29	26th	49·7	37·4	43·8	+ 4·7	7	0·82	21	+ 8	Salisbury ..	•	•	•	1	23	42·9	—	•	•
a Tunbridge Wells ..	354	53	23rd	29	26th	49·6	36·4	43·3	+ 4·2	6	0·71	18	0	Wisley	1·1	- 0·1	14	1	16	41·6	+0·3	44·6	-0·8
a Margate	51	54	23rd	33	26th	49·7	38·1	44·1	+ 3·8	4	0·85	22	+ 10	Tunbridge Wells	0·9	- 0·3	12	2	19	42·5	+1·5	44·9	—
														Margate	0·5	- 0·7	7	0	33	42·4	-0·8	44·9	-1·2
a Dungeness	21	49	21, 23, 27	28	27th	47·9	35·7	42·0	+ 1·3	5	0·52	13	- 1	Folkestone ..	1·2	—	16	•	•	•	•	46·0	—
p St. Leonards	178	—	—	—	—	—	—	—	—	—	—	—	—	St. Leonards ..	—	—	—	—	—	—	—	—	—
p Southampton	64	54	23rd	29	26th	50·1	38·4	44·5	+ 3·6	7	1·08	27	+ 8	Southampton ..	0·9	- 0·4	12	2	20	•	•	•	•
a Ventnor	59	52	23rd	35	26th	50·6	41·7	46·3	+ 3·4	7	0·94	24	+ 7	Ventnor	1·0	- 0·4	13	•	•	•	•	•	•
LONDON. *a* Richmond (Kew Obs.)	18	54	23rd	32	26, 27	49·6	37·5	43·8	+ 4·2	7	0·68	17	+ 5	Richmond ..	0·8	- 0·2	11	1	23	41·5	0·0	44·4	-1·4
a Westminster	27	55	23rd	30	26th	50·3	37·8	44·3	+ 3·8	7	0·65	16	+ 5	Westminster ..	0·6	+ 0·1	8	3	26	•	•	•	•
ag Greenwich	149	54	23rd	30	26th	49·7	37·3	43·8	+ 4·2	7	0·59	15	+ 5	Greenwich ..	0·9	- 0·2	12	2	20	•	•	•	•
a Hampstead	450	52	23rd	30	26th	46·9	36·7	42·0	—	7	0·76	19	—	Hampstead ..	0·7	—	9	3	28	•	•	•	•
ag Camden Square ..	110	54	23rd	30	26th	49·6	37·1	43·6	+ 4·0	6	0·71	18	+ 5	Camden Square	—	—	—	2	27	•	•	•	•
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	48	21st	28	25th	41·3	33·0	37·3	- 1·0	5	0·98	25	+ 4	Aspatria.. ..	0·2	- 0·8	3	2	24	39·8	-1·0	43·1	-1·5
p Newton Rigg	559	—	—	—	—	—	—	—	—	—	—	—	—	Newton Rigg ..	—	—	—	—	—	—	—	—	—
p Stonyhurst	575	46	22, 23, 26	26	26th	43·4	33·7	38·7	+ 0·4	6	2·49	63	+ 38	Stonyhurst ..	0·8	+ 0·1	11	2	19	•	•	•	•
p Blackpool	66	47	26th	30	26th	44·6	36·4	40·7	+ 1·4	5	2·17	55	+ 39	Blackpool ..	1·2	+ 0·2	16	—	—	41·9	—	45·0	—
a Southport	37	47	22, 26	29	26th	44·6	36·7	40·8	+ 1·4	6	1·64	42	+ 26	Southport ..	1·4	+ 0·4	19	1	22	39·6	+0·3	41·5	-1·0
														Hoylake ..	1·4	+ 0·2	19	•	•	•	•	•	•
a Liverpool (Bidston) ..	188	50	21, 22, 26	35	26th	47·3	39·3	43·5	+ 3·4	7	1·81	46	+ 33	Liverpool ..	1·5	—	21	—	—	•	•	•	•
a Hawarden Bridge ..	22	53	22nd	32	26th	46·1	39·0	42·7	+ 2·0	5	1·63	41	+ 30	Manchester (City)	0·2	0·0	3	1	30	40·1	-0·2	42·9	-1·7
a Manchester (Whit. Pk.)	126	51	21st	30	26th	45·6	36·3	41·1	+ 1·5	6	2·48	63	+ 47	Whitworth Park	0·2	- 0·2	3	•	•	•	•	•	•
b, NORTH WALES.																							
p Llandudno	16	50	23rd	36	26th	47·7	39·4	43·7	+ 1·6	6	1·94	49	+ 33	Llandudno ..	0·7	- 0·5	10	•	•	•	•	•	•
a Holyhead	15	51	22nd	38	26, 27	48·1	42·4	45·4	+ 2·9	7	1·35	34	+ 14	Holyhead ..	1·8	—	25	—	—	•	•	•	•
a Beddgelert	309	—	—	—	—	—	—	—	—	—	—	—	—										
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.							Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week.											Grass Min.		Earth 1 ft		Earth 4 ft.	
						Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Frosts.	Lowest Reading.	Mean.	Deviation from average.	Mean.	Deviation from average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.
8. *a* SOUTH WALES.																						
a Aberystwyth	59	48	26th	35	26th	46·1	40·7	43·5	—	6	1·40	36	—	Aberystwyth ..	0·9	- 0·1	12	°	°	°	°	°	°
a Rhayader	757	51	22, 23	31	26th	46·4	36·6	41·7	—	7	2·64	67	—	Rhayader ..	1·3	—	17	1	23	°	°	°	°
a St. Ann's Head ..	149	51	22, 23	43	22, 25, 26	49·4	45·0	47·3	+ 3·4	7	0·72	18	- 7	St. Ann's Head	1·2	+ 0·1	16	°	°	°	°	°	°
p Cardiff	202	50	21, 23, 27	32	26th	48·4	38·3	43·6	+ 3·5	7	1·78	45	+ 18	Cardiff	1·6	—	21	1	25	42·8	+0·9	44·9	-0·8
b, ENGLAND, S.W.																						
a Bath	66	54	23rd	27	26th	51·0	36·3	43·9	+ 3·7	7	1·33	34	+ 16	Bath	°	°	°	—	—	42·9	+0·1	45·4	-1·4
a Shaftesbury	722	51	23rd	32	26th	47·0	37·3	42·3	+ 3·7	7	1·54	39	+ 19	Shaftesbury ..	°	°	°	°	°	42·4	—	44·7	—
a Arlington	613	50	22, 23	31	26th	47·9	39·4	43·8	+ 3·6	7	2·20	56	+ 20										
a Newquay	190	52	22, 23	42	22, 26	50·4	45·0	47·8	+ 3·1	7	1·29	33	+ 9	Newquay ..	1·0	- 0·3	13	°	°	46·6	—	48·2	—
a Cullompton	202	53	22, 23	30	26th	50·4	39·6	45·2	+ 4·6	7	1·19	30	+ 6	Cullompton ..	0·6	- 0·4	8	1	24	44·6	°	°	°
a Portland Bill	19	52	22, 23	42	22, 26	50·4	44·0	47·3	+ 3·5	6	0·61	15	- 1	Weymouth ..	1·0	—	13	°	°	°	°	°	°
p Plymouth	116	54	23rd	35	26th	51·4	42·3	47·0	+ 3·6	7	1·13	29	+ 2	Plymouth ..	1·0	- 0·3	13	0	33	45·4	+0·6	47·7	—
a Falmouth	167	53	23rd	40	26th	50·7	43·0	47·0	+ 2·6	7	1·62	41	+ 7	Falmouth ..	1·3	- 0·1	16	0	34	46·2	—	47·8	—
9. IRELAND, N.																						
a West .. { *a* Malin Head	208	49	26th	33	26th	46·6	36·6	41·8	+ 0·1	6	1·73	44	+ 26	Malin Head ..	0·6	—	9	°	°	°	°	°	°
a Blacksod Point ..	37	53	26th	36	22, 25, 26	49·6	39·7	44·9	+ 1·5	7	2·99	76	+ 43	Markree Castle	1·0	+ 0·1	14	3	27	42·5	+0·3	45·0	-1·0
p Markree Castle ..	122	53	22, 23	32	26th	49·3	35·4	42·6	+ 2·6	7	2·17	55	+ 29										
b, East .. { *p* Armagh	196	51	21, 22	31	26th	46·4	33·6	40·3	+ 0·5	7	1·84	47	+ 31	Armagh	1·2	+ 0·2	17	1	23	41·5	+0·1	44·0	-0·8
a Donaghadee	39	49	26th	30	26th	44·9	35·9	40·6	- 0·6	6	1·77	45	+ 28										
10. IRELAND, S.																						
p Dublin, City	47	53	26th	35	26th	48·7	37·4	43·3	+ 0·9	5	0·70	18	+ 5	Trinity Coll. ..	1·1	—	15	2	29	43·5	+1·4	45·0	-0·2
a Birr Castle	175	52	22nd	35	25, 26	46·6	39·1	43·0	+ 2·5	7	1·42	36	+ 16	Phœnix Park ..	1·9	+ 0·5	26	3	23	°	°	°	°
a Kilkenny	195	53	22nd	32	26th	47·9	39·1	43·7	+ 3·1	7	0·83	21	+ 2	Dublin City ..	°	°	°	1	29	°	°	°	°
a Waterford	137	52	22, 26	35	26th	49·6	40·4	45·2	+ 2·6	6	0·68	17	- 10	Birr Castle ..	1·3	+ 0·1	18	—	—	°	°	°	°
p Seskin, Carrick-on-Suir	535	53	22nd	34	21, 22	49·3	36·3	43·1	—	7	1·00	25	—	Seskin	1·8	—	24	1	29	°	°	°	°
a Cahir	199	55	22nd	34	25, 26	47·9	38·0	43·2	+ 2·3	7	1·19	30	—										
a Foynes	50	53	22, 26	39	24th	48·0	41·6	44·9	+ 2·2	7	1·25	32	+ 4										
a Cahirciveen (Val. Obs.)	30	54	26th	40	26th	49·9	43·9	47·0	+ 1·8	7	1·54	39	0	Cahirciveen ..	1·5	+ 0·4	20	—	—	°	°	°	°
a Killarney	174	55	26th	38	26th	49·5	41·6	45·7	+ 2·3	7	1·64	42	- 1	Ballinacurra ..	—	—	—	°	°	°	°	°	°
a Roche's Point	32	54	22nd	41	22, 24–26	50·3	43·4	47·0	+ 2·6	6	0·68	17	- 14										
11. ENGLISH CHANNEL.																						
a Scilly, St. Mary's ..	131	52	21st	43	25, 26	50·7	45·7	48·3	+ 1·7	7	1·14	29	+ 6	Scilly	1·9	+ 0·2	24	°	°	°	°	°	°
a Jersey, St. Aubins ..	25	53	23, 26, 27	36	26th	52·0	42·9	47·6	+ 3·5	7	1·61	41	+ 19	St. Heliers ..	1·3	- 0·5	16	°	°	°	°	°	°
a Guernsey (Villa Carey)	180	52	22, 23	41	26th	50·7	45·1	48·0	+ 3·7	7	1·65	42	+ 18	Guernsey† ..	0·9	- 0·7	11	1	29	46·9	+1·0	48·3	-0·5

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, December 27th, 1919.

DISTRICT AND STATION	Height.			Distribution of Wind.†								Extreme Velocities.							
				More than 17 m/s or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.			
	Above Mean Sea Level	Above Ground.	Above Building.	Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Veer from N.	Speed.	Mid Time.		Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	26	7	20, 22, 23, 26	15	72	65	9	0	124	22	26	24	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	26	2	12	88	61	5	146	12	26	24	23	27	0	15
Aberdeen	153	105	52	—	—	21, 22, 26, 27	10	46	76	36	0	146	13	26	22	24	22	3	15
Edinburgh	485	39	31	—	—	26, 27	4	89	63	12	0	135	14	26	21	22	26	21	25
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	21, 22, 27	10	73	36	49	0	300	15	22	4	25	22	3	45
Paisley	188	81	15	—	—	22	1	39	98	30	0	315	11	22	3	32	22	1	30
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
South Shields	72	61	12	—	—	21, 26, 27	9	61	75	23	0	180	13	26	21	21	27	12	5
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Gorleston	52	42	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Shoeburyness	103	90	‡	—	—	21, 22, 26	11	119	38	0	0	281	13	21	17	24	21	8	45
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	21	1	108	54	5	0	293	11	21	17	22	21	15	30
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	—	—	111	50	7	0	—	11	21	23	19	21	19	15
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	66	97	5	0	281	10	21	18	20	21	17	50
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	21	1	52	56	59	0	247	11	21	24	20	22	0	5
Fleetwood (Cup Anr.) ..	109	44	—	21, 22	14	21 to 24, 26, 27	30	71	45	8	0	281	23	21	18	—	—	—	—
Southport	80	62	48	21, 22	15	21 to 24, 26, 27	60	52	35	6	0	293	21	21	20	29	21	18	30
Holyhead	60	40	‡	21, 22	16	21 to 24, 26, 27	55	81	16	0	0	293	21	21	18	29	21	14	25
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	22, 23, 26	6	21 to 27	91	52	18	1	0	203	19	26	16	27	22	22	10
Plymouth	185	88	2	—	—	21, 22, 24, 26, 27	22	107	31	8	0	—	17	26	17	25	21	20	45
Lyme Regis	556	61	‡	—	—	21, 22, 25	10	98	42	18	0	—	15	21	15	29	21	17	50
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	21, 22, 26	5	21 to 27	85	61	14	3	0	247	18	22	17	—	—	—	—
Quilty	100	40	‡	21, 27	9	21 to 27	88	62	1	0	8	—	21	21	14	37	21	13	40
Cahirciveen (Val. Obs.)	98	41	‡	—	—	21 to 27	56	102	7	3	0	295	15	21	16	24	21	14	35
Weaver Pt.	160	30	‡	—	—	21 to 23, 25 to 27	40	108	15	1	4	—	16	26	12	24	21	16	0
11 ENGLISH CHANNEL																			
Scilly	150	32	‡	21, 25	6	21 to 27	95	51	16	0	0	—	18	21	20	27	21	21	20

† More exactly the ranges adopted for this classification are > 17·2, 10·8 to 17·1, 5·5 to 10·7, 1·6 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.]
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory
* Above tops of trees. ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FIFTY-SECOND WEEK of 1919—December 21st to December 27th, 1919.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. At any "D.-V." Station. Highest	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean Pressure at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr	hr.	%	mb.
0. SCOTLAND, NORTH ...	45	22	76·8	71·8	74·4	− 2·4	0	− 7	52	+19	6	+ 1	1·42	36	+ 4	0·5	0·0	8	994
Eastern.																			
1. SCOTLAND, EAST ...	45	14	76·2	71·3	73·8	− 2·2	0	− 6	60	+18	5	+ 1	0·61	16	0	1·3	+0·3	19	996
2. ENGLAND, N.E.	51	23	79·2	74·0	76·7	0·0	3	− 5	31	− 2	5	+ 1	0·70	18	+ 7	1·2	+0·1	17	998
3. ENGLAND, EAST ...	54	24	81·2	74·7	78·1	+ 1·6	13	+ 5	29	− 6	6	+ 2	0·90	23	+ 11	1·2	+0·1	16	1003
4. MIDLAND COUNTIES ...	55	26	81·3	75·2	78·4	+ 1·9	14	+ 4	27	−10	6	+ 2	1·14	29	+ 14	1·2	+0·2	17	1003
5. ENGLAND, S.E.	54	26	82·7	76·3	79·6	+ 2·0	31	+ 17	11	−16	6	+ 2	0·94	24	+ 8	0·9	−0·3	12	1004
Western.																			
6. SCOTLAND, WEST ...	50	19	78·8	73·5	76·3	− 1·1	1	− 10	34	+ 5	5	0	1·84	47	+ 17	1·1	+0·3	15	998
7. ENGLAND, N.W.	53	26	80·5	76·1	78·4	+ 1·0	10	− 2	20	− 7	6	+ 2	1·83	46	+ 27	0·9	−0·1	12	1000
8. ENGLAND, S.W.	54	27	82·6	77·6	80·2	+ 1·7	28	+ 11	5	−14	7	+ 2	1·48	37	+ 10	1·0	−0·1	14	1006
9. IRELAND, NORTH ...	53	30	81·4	75·6	78·7	+ 0·8	24	+ 10	15	− 6	7	+ 2	1·99	51	+ 29	1·1	+0·1	15	998
10. IRELAND, SOUTH ...	55	32	82·3	77·7	80·1	+ 1·1	26	+ 5	4	−13	7	+ 2	1·10	28	0	1·6	+0·3	21	1005
11. ENGLISH CHANNEL ...	53	36	83·6	80·0	81·9	+ 1·5	42	+ 13	0	− 6	7	+ 2	1·47	37	+ 14	1·4	−0·3	17	1011

THE SEASON (Winter).—Aggregates, &c., for the Period of 4 Weeks, November 30th to December 27th, 1919.

0. SCOTLAND, NORTH ...	51	20	79·1	74·3	76·8	− 0·1	20	− 15	118	0	23	+ 1	6·00	152	+ 12	0·7	+0·1	11	1000
Eastern.																			
1. SCOTLAND, EAST ...	52	14	78·5	73·4	76·1	− 0·2	13	− 18	157	+ 2	20	+ 3	3·36	86	+ 15	1·4	+0·4	20	1003
2. ENGLAND, N.E.	55	23	79·7	74·6	77·2	+ 0·1	25	− 13	115	− 2	21	+ 5	2·39	61	+ 9	1·2	0·0	16	1007
3. ENGLAND, EAST ...	55	22	80·6	74·5	77·7	+ 0·5	52	+ 7	108	− 15	23	+ 6	3·41	86	+ 34	1·1	−0·2	15	1011
4. MIDLAND COUNTIES ...	56	17	80·9	75·1	78·1	+ 1·1	69	+ 21	87	− 46	21	+ 4	3·43	87	+ 25	1·2	+0·1	15	1010
5. ENGLAND, S.E.	54	24	81·7	75·7	78·9	+ 0·7	95	+ 26	65	− 24	21	+ 5	3·84	98	+ 26	1·2	−0·2	15	1012
Western.																			
6. SCOTLAND, WEST ...	52	19	80·2	75·3	77·9	+ 0·2	38	− 12	88	− 4	23	+ 4	7·82	199	+ 70	1·3	+0·4	18	1006
7. ENGLAND, N.W.	55	24	81·0	76·2	78·7	+ 0·8	65	+ 12	63	− 29	22	+ 4	4·58	115	+ 30	1·2	+0·2	16	1008
8. ENGLAND, S.W.	55	24	82·4	77·0	79·8	+ 0·8	110	+ 27	31	− 31	25	+ 6	6·04	152	+ 36	1·5	+0·1	20	1012
9. IRELAND, NORTH ...	53	20	81·7	75·8	78·9	+ 0·7	93	+ 35	65	− 17	27	+ 6	6·00	153	+ 60	1·2	0·0	17	1004
10. IRELAND, SOUTH ...	57	24	82·7	76·8	79·9	+ 0·7	121	+ 30	36	− 26	25	+ 5	4·82	122	+ 14	1·6	+0·1	21	1010
11. ENGLISH CHANNEL ...	54	33	83·2	79·4	81·4	+ 0·5	146	+ 11	3	− 14	24	+ 3	3·88	99	0	1·5	−0·3	19	1016

THE YEAR 1919.—Aggregates, &c., for the Period of 52 Weeks, December 29th, 1918, to December 27th, 1919.

0. SCOTLAND, NORTH ...	78	9	82·9	77·0	79·8	− 0·8	1846	−262	1008	+ 233	236	−10	46·64	1187	−114	3·3	+0·2	27	1011
Eastern.																			
1. SCOTLAND, EAST ...	78	−6	83·6	76·3	79·8	− 0·9	2041	−284	1204	+ 287	201	− 6	29·81	764	− 25	3·8	+0·2	32	1011
2. ENGLAND, N.E.	85	11	84·7	77·6	81·0	− 0·6	2484	−203	893	+ 219	202	+14	26·85	683	+ 52	3·8	−0·2	32	1013
3. ENGLAND, EAST ...	88	10	85·4	77·7	81·4	− 0·8	2754	−335	906	+ 200	183	− 1	25·03	638	+ 33	4·2	−0·1	34	1014
4. MIDLAND COUNTIES ...	90	9	85·4	77·5	81·3	− 0·6	2772	−210	947	+ 175	180	− 3	28·41	722	+ 44	3·9	+0·1	32	1014
5. ENGLAND, S.E.	86	16	86·0	78·4	82·1	− 0·7	3060	−274	696	+ 164	176	− 3	27·59	699	− 1	4·3	−0·2	36	1014
Western.																			
6. SCOTLAND, WEST ...	83	12	84·3	77·6	80·8	− 0·8	2304	−287	827	+ 230	206	−12	41·98	1069	−131	4·1	+0·4	34	1013
7. ENGLAND, N.W.	84	10	84·7	78·4	81·4	− 0·6	2558	−271	712	+ 174	190	−11	31·17	790	−107	3·9	0·0	32	1013
8. ENGLAND, S.W.	86	15	85·6	78·8	82·1	− 0·6	2920	−261	587	+ 173	194	− 8	37·09	941	− 54	4·5	+0·2	37	1015
9. IRELAND, NORTH ...	78	12	84·9	78·2	81·4	− 0·5	2537	−172	661	+ 168	231	− 8	35·20	889	− 82	3·8	+0·3	31	1012
10. IRELAND, SOUTH ...	80	15	85·8	79·0	82·3	− 0·5	2987	−173	563	+ 182	215	+ 1	32·34	822	−197	4·1	+0·1	34	1015
11. ENGLISH CHANNEL ...	85	26	86·4	81·1	83·7	− 0·5	3518	−295	170	+ 43	202	− 9	37·59	963	+124	4·9	−0·2	41	1016
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm	mm	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: January 2nd, 1920.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PRINTED AND PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 28, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET, MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23, FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

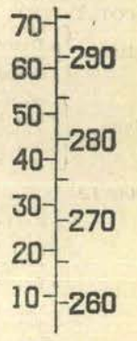
FORTY-SECOND YEAR. Vol. XXXVI. (New Series.) } No. 53.

FIFTY-THIRD WEEK,
SUNDAY, DECEMBER 28TH, 1919, TO SATURDAY, JANUARY 3RD, 1920.

Price 6d. Net, Post free 6½d.
Annual Subscription (including the Monthly Weather Report), £1 10s. 0d. Net.

I.—GENERAL SUMMARY. [First published in 1878.]

The weather over the British Isles generally during the week was rather changeable. Over England and Ireland the first three days were mostly dull and rainy, with high temperature, on Wednesday there was a change, and the three later days showed a marked improvement in the weather with much cooler air. Over Scotland the temperature was low all the week, with a larger proportion of fair weather than in England. On the night of the 30th–31st, however, there was a snowstorm, described by some observers as a "blizzard." The highest of the maxima occurred generally on the 29th or 30th December when readings of 285 a were recorded over Eastern and Southern England and also over Southern Ireland. The lowest of the minima were recorded on December 2nd over England, when screen temperatures of 269 a were registered at several places, with grass readings down to 263 a or lower. In Scotland the lowest temperatures were registered on the 1st or 3rd, several stations having 264 a or 265 a in the screen and 261 a on the grass. The mean for the week was about 2 a below the normal in Scotland, and from 0·5 a to 1·2 a above it over England. In Scotland N. (where the normal rainfall is the heaviest) the total for the week was 14mm. less than usual, in all other districts it was in excess, especially in England S.W. and the English Channel. Over Scotland the precipitation for the 30th exceeded 20mm. in many places, while at Arlington, North Devon, on the 28th it was as much as 31mm. Bright sunshine was slightly more than the normal in the Northern districts and less in the South. Aurora was witnessed between 0h. 30m. and 1h. on the 30th at Oxford. Solar halos were frequently observed in many districts, while lunar halos were seen in nearly all parts of the Kingdom on several nights.



Temperature Scales.

II.—WIND COMPONENTS.—FREQUENCIES (at 3h., 9h., 15h., 21h.) AND MEAN VALUES. [First published 1916.]

WIND COMPONENT FROM	SCOTLAND, N.* Deerness.		EDINBURGH. Blackford Hill.		ENGLAND, E.† Shoeburyness.		LONDON. Richmond.		NORTH WALES. Holyhead.		ENGLAND, S.W. Scilly.		DUBLIN. Kingstown.		IRELAND, S.W. Cahirciveen.	
	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.	Frequency (Max. 28.)	Mean Value.
	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s	¼-day	m/s
South	16	5·3	16	3·6	19	6·2	21	3·8	12	6·1	19	6·0	17	5·8	12	4·8
North	9	5·6	6	3·5	7	3·4	5	3·4	7	5·7	6	9·0	5	7·0	9	6·5
West	17	5·6	15	4·7	15	6·4	20	2·8	12	5·0	19	7·3	14	6·5	9	5·2
East	8	8·5	10	3·5	6	4·2	7	3·1	8	4·5	6	5·5	10	3·4	12	4·6
Calm	2	—	2	—	1	—	0	—	2	—	0	—	3	—	6	—

* For Deerness the week ends at midnight on Friday.

† Until the end of March, 1919, England E. was represented by Yarmouth.

III.—WARMTH, RAINFALL AND SUNSHINE.

THE WEEK.—COMPARISON WITH NORMAL. [First published 1907.]

An explanation of the terms "Unusual," &c. is printed on a separate sheet, *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ... Warmth ...	Deficient	Deficient	Moderate	Unusual	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate
Rainfall ...	Light	Heavy	Heavy	Heavy	Heavy	Heavy	Moderate	Moderate	Heavy	Heavy	Heavy	Very heavy
Sunshine ...	Abundant	Abundant	Moderate	Moderate	Scanty	Scanty	Moderate	Moderate	Scanty	Moderate	Moderate	Scanty

THE SEASON.—ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

In the column for each district the first figure in the line for warmth denotes the number of weeks of unusual warmth, the last figure the number of weeks of deficient warmth. The middle figure, in small type, shows the number of "moderate" weeks. Rainfall and sunshine are similarly dealt with.

WINTER. 5 weeks from Nov. 30th, 1919. Warmth ...	0, 3, 2	1, 2, 2	0, 5, 0	4, 1, 0	3, 2, 0	3, 2, 0	1, 4, 0	2, 3, 0	3, 2, 0	3, 2, 0	2, 2, 1	3, 1, 1
Rainfall ...	1, 3, 1	2, 3, 0	3, 2, 0	3, 2, 0	4, 0, 1	3, 1, 1	4, 1, 0	2, 2, 1	3, 2, 0	4, 1, 0	3, 2, 0	3, 0, 2
Sunshine ...	3, 1, 1	4, 1, 0	0, 4, 1	0, 4, 1	1, 2, 2	0, 2, 3	1, 4, 0	1, 4, 0	1, 3, 1	1, 4, 0	0, 5, 0	1, 0, 4

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office.

(2) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(3) The following are the relations between the metric units used in the Report and the corresponding units used before 1914:—
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C = 32° F., 1 mm = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(26875—19) Wt 162—833/512 1/20 625 H. St. G. 17/ 36

IV.—TEMPERATURE, RAINFALL AND SUNSHINE AT STATIONS IN THE UNITED KINGDOM.

['TEMPERATURE and RAINFALL, first published in 1878, SUNSHINE in 1880, GROUND TEMPERATURE in 1906.]

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Mean for the Week. Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%		°F.	°F.	°F.	°F.	°F.
a, Islands.. *a* Lerwick..	54	43	29th	30	2nd	38·7	33·1	36·0	- 3·5	6	0·98	25	+ 2										
p Deerness, Orkney	165	43	29th	28	1st	39·6	33·9	36·8	—	5	0·63	16	- 4	Deerness	1·0	+ 0·3	16	•	•	•	•	•	•
a Stornoway	51	42	28th	27	1st	38·9	30·7	35·0	- 4·5	4	0·47	12	- 17	Stornoway	1·0	+ 0·3	16	•	•	•	•	•	•
a Castlebay, Barra I.	37	—	—	—	—	—	—	—	—	—	—	—	—	Castlebay	—	—	—	•	•	•	•	•	•
b, Mainland. *a* Wick	81	43	3rd	23	3rd	39·9	29·3	34·8	- 3·6	5	0·67	17	+ 3										
a Strathpeffer	125	41	29th	20	3rd	36·6	26·0	31·5	- 5·8	1	0·33	9	- 8										
p Glencarron	500	—	—	—	—	—	—	—	—	—	—	—	—										
a Fort Augustus..	68	—	—	—	—	—	—	—	—	—	—	—	—										
p Fort William	171	43	28th	28	1st	39·7	31·3	35·7	- 3·5	6	0·70	18	- 32										
1. SCOTLAND, E.																							
a Nairn	82	41	29th	24	3rd	37·6	29·0	33·5	- 3·7	4	0·21	5	- 7	Nairn	1·6	—	25	•	•	•	•	•	•
p Gordon Castle	101	42	29,30	25	3rd	38·4	29·3	34·0	- 4·1	4	0·45	11	- 2	Gordon Castle	1·4	—	22	•	•	•	•	•	•
a Aberdeen	46	43	28, 29	23	3rd	39·1	29·1	34·3	- 3·6	5	1·66	42	+ 26	Aberdeen	1·9	+ 0·8	29	6	16	•	•	39·7	-1·8
a Balmoral	930	38	29th	16	3rd	34·9	24·1	29·7	- 4·6	6	0·89	23	+ 6	Balmoral	•	•	•	6	11	•	•	•	•
p Crieff	432	41	29th	25	1st	37·9	28·3	33·3	- 3·7	3	1·02	26	+ 2	Crathes	2·0	+ 0·9	30	7	16	33·2	-3·5	37·2	-2·3
a Dundee	244	39	29, 30, 3	24	3rd	37·4	27·4	32·6	- 4·5	3	1·59	40	+ 27	Dundee	2·0	—	30	7	20	33·4	•	•	•
a Leith	30	43	29th	29	1st	39·0	33·6	36·4	- 3·0	4	1·26	32	+ 22	Leith	•	•	•	—	—	•	•	•	•
p Edinburgh	441	47	29th	27	1st	39·3	32·3	35·9	- 2·3	3	1·32	34	+ 23	Edinburgh	1·9	+ 0·7	28	3	22	•	•	•	•
a West Linton	769	45	28th	18	1st	38·4	27·3	33·1	- 1·2	6	1·49	38	—	West Linton	1·1	—	16	5	20	•	•	•	•
p Marchmont	498	44	28th	26	1st	39·6	30·0	35·0	- 1·5	4	1·22	31	+ 17	Marchmont	1·5	+ 0·5	22	•	•	•	•	•	•
6. *a*, SCOTLAND, W.																							
a Ford (Argyll)	149	44	29th	26	2nd	39·6	31·8	35·9	—	7	1·57	40	—	Ford (Argyll)	•	•	•	—	—	36·1	—	40·3	—
p Glasgow Observatory	180	44	29th	28	1st	39·1	32·9	36·1	- 2·7	5	1·52	39	+ 18	Glasgow	0·9	+ 0·4	13	4	17	•	•	•	•
p Rothesay	200	42	28th	29	1st	39·6	33·4	36·6	- 3·0	6	1·41	36	+ 7	Rothesay	1·1	—	16	5	22	36·1	—	41·0	-2·6
a Kilmarnock	90	46	28th	23	1, 2	40·7	31·0	36·0	- 2·0	6	1·34	34	+ 12	Kilmarnock	1·2	—	17	•	•	37·5	—	42·1	—
a Colmonell	170	50	28th	30	1st	41·7	33·3	37·7	- 1·8	7	1·71	43	+ 14	Colmonell	•	•	•	4	26	•	•	•	•
p Cally, Gatehouse	120	44	29th	25	2nd	40·3	31·3	36·0	- 2·5	5	0·84	21	- 8	Dumfries	1·3	—	18	4	21	36·9	-2·5	41·1	-1·3
p Dumfries	160	50	29th	27	1st	40·9	33·1	37·2	- 0·9	4	1·36	35	+ 15	Eskdalemuir	1·3	—	19	—	—	•	•	•	•
a Eskdalemuir	794	45	29th	23	2nd	38·7	29·1	34·1	—	6	1·70	43	—										
b, I. OF MAN *p* Douglas	277	50	29th	34	1, 2	44·0	36·6	40·5	- 0·7	6	1·52	39	+ 14	Douglas	1·6	+ 0·8	22	2	28	•	•	•	•
2. ENGLAND, N.E																							
a North.. *a* Alnwick Castle	210	48	28-30	29	2nd	42·7	32·6	37·9	0·0	4	1·42	36	+ 20										
a Tynemouth	118	49	29th	29	2nd	42·3	34·1	38·4	- 0·2	4	0·98	25	+ 13	Cockle Park	1·4	+ 0·1	20	5	23	35·1	-2·4	39·3	-1·8
p Durham	336	49	29th	27	1st	41·1	32·1	36·8	- 0·3	4	0·63	16	+ 5	Durham	1·3	+ 0·1	18	5	17	•	•	•	•
p Rounton	249	49	29th	26	1, 2	41·9	31·3	36·8	- 0·3	4	0·60	15	+ 3	Rounton	•	•	•	7	12	36·5	•	•	•
a West Witton	605	48	28th	28	2nd	40·9	32·7	37·0	—	4	1·00	25	—	West Witton	•	•	•	5	22	36·3	—	40·2	—
p Scarborough	100	—	—	—	—	—	—	—	—	—	—	—	—	Scarborough†	—	—	—	•	•	•	•	•	•
p York	56	50	29th	28	2nd	42·4	33·4	38·1	+ 0·1	4	0·57	14	+ 2	York	—	—	—	—	—	38·5	-2·0	42·1	-1·8
b, South.. *a* Spurn Head	26	46	28, 30	32	2, 3	42·1	34·7	38·6	- 0·3	4	0·59	15	+ 5	Spurn Head	•	•	•	•	•	•	•	•	•
a Lincoln	58	51	29th	26	2nd	44·1	35·0	39·7	+ 2·3	4	0·56	14	+ 2	Lincoln	•	•	•	4	22	38·1	-1·4	42·1	-1·6
a Fulbeck	180	51	29th	25	2nd	43·3	33·9	38·8	+ 1·3	5	0·64	16	+ 4	Fulbeck	0·4	—	6	•	•	—	—	—	—
														Skegness	0·9	- 0·6	12	•	•	•	•	•	•
3. ENGLAND, E.																							
p Cromer	196	55	30th	27	2, 3	47·0	35·6	41·5	+ 3·2	7	0·64	16	+ 5	Cromer	1·3	- 0·1	18	•	•	•	•	•	•
a Little Massingham	280	51	29th	24	2nd	43·6	32·6	38·3	+ 1·2	5	1·15	29	+ 14	Lit. Massingham	1·0	- 0·2	13	•	•	•	•	•	•
a Yarmouth	13	53	29th	28	2, 3	44·9	34·9	40·1	+ 2·0	6	1·08	27	+ 14	Yarmouth	1·5	—	20	3	23	40·7	+0·2	43·9	-1·2
a Norwich	93	52	29th	28	2nd	44·6	35·0	40·0	+ 2·4	5	0·93	24	+ 10	Norwich	1·0	—	13	4	22	37·9	•	•	•
a Geldeston	37	54	29th	26	2nd	45·9	34·6	40·5	+ 2·2	4	0·63	16	+ 4	Geldeston	1·2	- 0·2	16	•	•	•	•	•	•
p Cambridge	41	54	29th	25	2nd	44·6	34·3	39·7	+ 1·9	4	0·48	12	+ 1	Cambridge	0·8	- 0·5	11	4	18	40·5	-0·3	43·9	-1·1
a Clacton-on-Sea	54	49	28th	28	3rd	44·1	36·0	40·2	+ 1·9	4	0·61	16	+ 6	Clacton	1·3	—	17	3	23	40·6	-1·7	44·4	-2·1
a Rothamsted	424	52	28th	26	2nd	43·4	34·6	39·2	+ 1·6	4	0·83	24	+ 9	Rothamsted	1·0	- 0·3	13	4	19	40·1	•	•	•
p Tottenham	51	55	30th	28	2nd	46·3	38·0	42·3	—	4	0·64	16	—	Tottenham	0·2	—	3	3	24	•	•	45·1	-1·3
														S'thend-on-Sea	0·4	—	5	3	25	40·8	-1·1	—	—
4. MIDLAND COUNTIES.																							
a North.. *a* Harrogate	479	48	28, 29	26	2nd	41·6	33·3	37·6	+ 0·7	3	0·91	23	+ 6	Harrogate	1·7	+ 0·5	24	3	23	38·4	-1·7	40·9	-1·1
p Sheffield	429	51	29th	30	1, 2	43·1	34·7	39·1	—	5	0·78	20	—	Sheffield	0·6	- 0·5	8	3	25	38·4	-1·5	42·3	-1·6
p Buxton	987	48	29th	24	2nd	39·7	32·3	36·2	—	6	0·98	25	- 7	Buxton	0·6	—	8	3	16	37·1	-1·9	40·6	-2·9
b, East.. *a* Worksop	56	52	29th	26	2nd	44·1	33·6	39·1	+ 1·4	4	0·55	14	+ 1	Worksop	0·5	- 0·4	7	4	16	38·1	—	41·3	—
a Nottingham	82	52	29th	27	2nd	44·4	34·4	39·6	+ 1·6	5	0·65	17	+ 4	Nottingham	0·1	- 0·8	1	5	19	38·1	-1·2	40·5	-1·9
p Birmingham, Edgbn.	535	51	29th	29	1, 2	43·0	35·3	39·3	+ 1·3	5	0·83	21	+ 6	Birmingham	0·3	- 0·6	4	4	21	40·9	-0·8	44·7	-1·2
a Raunds	203	52	29th	24	2nd	44·7	33·3	39·2	+ 2·3	4	0·60	15	+ 2	Raunds	0·6	—	8	5	19	39·9	—	43·6	—
p Oxford	208	53	29th	27	2nd	44·9	36·6	40·9	+ 2·2	4	0·70	18	+ 4	Oxford	1·1	- 0·2	14	4	22	•	•	•	•
														Malvern	1·0	—	13	—	—	40·1	—	43·4	—
c, West.. *a* Cheadle (N. Staffs.)	646	48	29th	26	2nd	40·9	32·7	37·0	+ 0·3	6	0·93	24	+ 6	Cheadle	•	•	•	4	25	•	•	•	•
p Tenbury	313	52	29th	25	2nd	44·9	35·4	40·3	+ 1·2	5	0·69	18	+ 6	Tenbury	•	•	•	3	19	40·3	—	—	—
p Ross-on-Wye	201	53	29th	27	2nd	45·1	36·7	41·1	+ 2·4	5	0·90	23	+ 7	Ross-on-Wye	0·9	—	12	4	19	—	—	—	—
a Clifton	226	52	28, 29	29	2nd	45·1	37·3	41·4	+ 1·4	6	1·44	37	+ 15	Clifton	1·1	—	14	3	25	•	•	•	•
5. ENGLAND, S.E.																							
a Marlborough	424	52	28, 29	25	2nd	45·1	34·1	39·8	+ 1·9	6	1·08	28	+ 11	Worthing	1·3	- 0·3	16	4	24	42·5	+0·1	45·6	-1·2
p Salisbury (Wilton)	180	54	29th	31	28, 1	46·9	38·1	42·7	+ 4·2	7	2·25	57	+ 37	Marlborough	0·8	- 0·3	10	4	19	41·4	—	45·0	—
a Wisley, Surrey	150	53	29th	26	2nd	45·1	35·9	40·7	+ 1·8	6	0·91	23	+ 11	Salisbury	•	•	•	2	26	42·1	—	•	•
a Tunbridge Wells	354	53	29th	24	2nd	45·4	34·3	40·1	+ 1·4	5	1·40	36	+ 19	Wisley	0·9	- 0·4	12	4	16	41·7	+0·1	44·7	-0·7
a Margate	51	54	29th	30	2nd	46·7	38·4	42·7	+ 2·7	4	0·65	16	+ 5	Tunbridge Wells	0·9	- 0·4	12	4	16	42·7	+1·7	44·8	—
														Margate	0·2	- 1·1	3	3	26	42·8	-0·4	44·9	-1·2
a Dungeness	21	51	30th	25	3rd	46·6	36·7	41·9	+ 1·6	4	0·79	20	+ 7	Folkestone	1·0	—	13	•	•	•	•	45·5	—
p St. Leonards	178	51	28, 30	29	2nd	47·3	38·3	43·0	+ 2·5	6	0·81	21	+ 6	St. Leonards	1·1	- 0·5	14	3	25	42·3	—	44·8	—
p Southampton	64	52	29, 30	25	2nd	46·4	37·7	42·2	+ 1·5	7	1·69	43	+ 25	Southampton	1·2	- 0·2	15	3	16	•	•	•	•
a Ventnor	59	52	28th	30	2nd	46·7	39·7	43·3	+ 0·7	7	1·89	48	+ 31	Ventnor	1·0	- 0·6	13	•	•	•	•	•	•
LONDON. *a* Richmond (Kew Obs.)	18	53	29th	28	2nd	46·1	36·3	41·4	+ 2·0	5	0·66	17	+ 5	Richmond	0·7	- 0·4	9	4	20	41·2	-0·3	44·4	-1·4
a Westminster	27	55	29th	26	2nd	47·3	36·0	41·9	+ 1·6	5	0·65	17	+ 6	Westminster	0·3	- 0·2	4	5	18	•	•	•	•
ag Greenwich	149	54	29th	27	2nd	45·6	35·7	40·9	+ 1·1	5	0·66	17	+ 7	Greenwich	0·8	- 0·4	10	5	16	•	•	•	•
a Hampstead	450	52	29th	25	2nd	44·1	35·4	39·9	—	4	0·80	15	—	Hampstead	0·7	—	9	4	18	•	•	•	•
ag Camden Square	110	54	29th	26	2nd	45·9	35·3	40·8	+ 1·4	4	0·60	15	+ 2	Camden Square	—	—	—	4	22	•	•	•	•
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	44	31st	27	1st	40·3	33·9	37·2	- 1·0	4	0·74	19	- 2	Aspatria	1·1	+ 0·1	16	3	19	38·7	-2·1	42·6	-2·0
p Newton Rigg	559	49	29th	25	1st	41·1	31·4	36·4	- 0·4	5	0·79	20	- 1	Newton Rigg	1·1	+ 0·1	16	7	16	37·9	-1·9	41·4	-1·0
p Stonyhurst	375	49	30th	27	2nd	43·1	34·4	38·9	+ 0·8	5	0·96	25	- 1	Stonyhurst	1·0	+ 0·2	14	2	22	•	•	•	•
p Blackpool	66	48	28-30	32	1st	43·9	37·0	40·6	+ 1·5	6	1·53	39	+ 22	Blackpool	1·3	+ 0·3	18	4	21	41·0	—	44·7	—
a Southport	37	49	28th	31	2nd	43·4	36·6	40·1	+ 0·9	7	1·01	26	+ 10	Southport	0·9	- 0·1	12	2	24	38·1	-1·2	41·2	-1·3
														Hoylake	—	—	—	•	•	•	•	•	•
a Liverpool (Bidston)	188	51	28th	34	2nd	44·7	38·0	41·5	+ 1·6	4	0·95	24	+ 10	Liverpool	1·3	—	18	—	—	•	•	•	•
a Hawarden Bridge	22	52	28, 29	33	2nd	45·0	38·0	41·6	+ 1·1	5	0·71	18	+ 6	Manchester (City)	0·2	- 0·1	3	1	26	39·0	-1·3	42·8	-1·8
a Manchester (Whit. Pk.)	125	51	29th	27	2nd	43·3	35·3	39·5	+ 0·1	6	0·70	18	+ 2	Whitworth Park	0·0	- 0·4	0	•	•	•	•	•	•
b, NORTH WALES.																							
p Llandudno	16	52	29th	33	1st	45·6	37·0	41·5	- 0·4	4	1·22	31	+ 15	Llandudno	1·2	- 0·1	16	•	•	•	•	•	•
a Holyhead	15	50	28th	37	1, 2	46·6	39·4	43·1	+ 0·8	3	0·83	21	+ 1	Holyhead	1·0	—	14	—	—	•	•	•	•
a Beddgelert	309	—	—	—	—	—	—	—	—	—	—	—	—										
a Aberdovey	22	—	—	—	—	—	—	—	—	—	—	—	—										

† Earth temperature at 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.				Rainfall.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.	Bright Sunshine. Hours per Day.			Ground Temperature.					
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.	
																		Ground Frosts.	Lowest Reading.	Mean.	Deviation from average.	Mean.	Deviation from average.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.		hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.
8. *a.* SOUTH WALES.																							
a Aberystwyth	59	51	30th	28	2nd	46·3	38·7	42·7	—	4	0·88	22	—	Aberystwyth ..	1·6	+ 0·4	21	•	•	•	•	•	•
a Rhayader	757	51	28th	27	2nd	43·3	34·1	38·9	—	6	1·24	32	—	Rhayader ..	0·6	—	8	3	18	•	•	•	•
a St. Ann's Head	149	51	28th	36	2nd	46·9	42·1	44·6	+ 1·1	7	1·42	36	+ 12	St. Ann's Head	1·3	0·0	17	•	•	•	•	•	•
p Cardiff	202	51	29th	32	1st	45·7	36·7	41·4	+ 1·7	5	1·78	45	+ 19	Cardiff	0·8	—	10	3	22	42·1	+0·2	45·0	-0·7
b, ENGLAND, S.W.																							
a Bath	66	55	28, 29	28	2nd	48·3	34·9	41·9	+ 2·0	6	1·05	27	+ 10	Bath	•	•	•	—	—	42·5	-0·3	45·3	-1·5
a Shaftesbury	722	51	28th	25	2nd	43·9	34·9	39·6	+ 1·3	7	1·34	34	+ 15	Shaftesbury ..	•	•	•	•	•	41·9	—	44·4	—
a Arlington	613	51	28th	29	2nd	45·4	36·4	41·1	+ 1·2	7	2·57	65	+ 31										
a Newquay	190	53	28th	33	2nd	48·2	40·5	44·5	+ 0·2	7	1·95	50	+ 28	Newquay ..	0·8	- 0·7	10	—	—	46·3	—	48·3	—
a Cullompton	202	54	28, 29	27	2nd	47·9	37·9	43·1	+ 2·8	7	1·94	49	+ 26	Cullompton ..	0·7	- 0·5	9	4	19	43·9	•	•	•
a Portland Bill	19	52	28, 29	32	2nd	48·9	40·7	45·0	+ 1·6	7	2·24	57	+ 42	Weymouth ..	0·5	—	6	•	•	•	•	•	•
p Plymouth	116	54	28th	30	2nd	49·1	38·9	44·2	+ 1·1	7	3·03	77	+ 52	Plymouth ..	0·7	- 0·7	9	2	23	45·1	+0·3	47·7	—
a Falmouth	167	53	28th	30	3rd	49·1	39·3	44·4	+ 0·3	7	3·56	91	+ 59	Falmouth ..	0·8	- 0·8	10	1	22	46·4	—	48·2	—
9. IRELAND, N.																							
a West .. { *a* Malin Head	208	47	28th	34	1st	45·6	36·7	41·3	- 0·1	7	0·63	16	- 2	Malin Head ..	1·0	—	14	•	•	•	•	•	•
a Blacksod Point ..	37	49	28th	34	2nd	45·0	36·9	41·1	- 2·0	6	1·42	36	+ 4	Markree Castle	1·1	0·0	15	4	26	40·1	-2·1	44·7	-1·3
p Markree Castle ..	122	51	29th	30	30, 2	44·0	33·7	39·1	- 0·7	7	1·95	50	+ 25										
b, East .. { *p* Armagh	196	51	29th	29	1st	43·7	33·7	38·9	- 0·7	6	1·91	48	+ 31	Armagh	1·5	+ 0·4	21	3	21	39·4	-2·0	43·5	-1·3
a Donaghadee	39	50	28th	31	2nd	44·0	34·4	39·4	- 1·5	6	1·81	46	+ 29										
10. IRELAND, S.																							
p Dublin, City	47	54	29th	32	1, 2	46·4	36·3	41·6	- 0·5	5	0·93	24	+ 9	Trinity Coll. ..	0·7	—	10	5	22	40·9	-1·2	45·0	-0·2
a Birr Castle	175	52	28th	28	2nd	44·6	32·4	38·7	- 1·5	4	0·83	21	+ 2	Phœnix Park ..	1·9	+ 0·4	26	6	20	•	•	•	•
a Kilkenny	195	53	28th	26	2, 3	45·6	31·6	38·9	- 1·4	5	1·87	48	+ 27	Dublin City ..	•	•	•	3	27	•	•	•	•
a Waterford	137	51	28, 29	35	28, 1, 3	47·1	37·0	42·3	0·0	6	2·26	58	+ 32	Birr Castle ..	1·5	+ 0·2	20	—	—	•	•	•	•
p Seskin, Carrick-on-Suir	535	53	28, 29	29	2nd	45·7	34·1	40·1	—	6	2·37	60	—	Seskin	0·7	—	9	3	22	•	•	•	•
a Cahir	199	52	28th	24	2nd	45·1	33·0	39·3	- 1·6	6	1·75	44	—										
a Foynes	50	54	28th	33	2, 3	45·4	37·1	41·4	- 1·0	6	1·26	32	+ 5										
a Cahirciveen (Val. Obs.)	30	54	28th	31	2nd	47·8	38·4	43·2	- 1·7	6	2·09	53	+ 15	Cahirciveen ..	0·5	- 0·8	7	—	—	•	•	•	•
a Killarney	174	55	28th	29	2nd	46·8	36·6	41·9	- 1·2	7	2·02	51	+ 10	Ballinacurra ..	—	—	—	•	•	•	•	•	•
a Roche's Point	32	53	28th	32	2nd	47·1	37·6	42·5	- 1·6	7	2·02	51	+ 21										
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	52	28-30	37	2, 3	49·7	43·1	46·5	+ 0·1	7	1·97	50	+ 27	Scilly	0·5	- 1·3	6	•	•	•	•	•	•
a Jersey, St. Aubins ..	25	54	29th	35	3rd	49·6	43·0	46·4	+ 2·6	7	1·38	35	+ 13	St. Heliers ..	1·6	- 0·3	20	•	•	•	•	•	•
a Guernsey (Villa Carey)	180	53	28, 29	34	2, 3	49·3	41·1	45·4	+ 1·3	7	2·67	68	+ 44	Guernsey† ..	1·3	- 0·4	16	2	23	46·9	+1·0	48·6	-0·2

† The Guernsey Sunshine refers to Villa Carey, the Ground Temperatures to Brooklyn.

V.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [First published 1914.]

Week ending at midnight (24h.) on Saturday, January 3rd, 1920.

DISTRICT AND STATION	Height.			Distribution of Wind.†								Extreme Velocities.							
				More than 17 m/s or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.			
	Above Mean Sea Level	Above Ground.	Above Building.	Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Veer from N.	Speed.	Mid Time.		Speed.	Date		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m./s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.)** ..	188	16	5	27, 29	5	27 to 29, 31, 1, 2	53	46	51	13	0	125	22	27	1	—	—	—	—
1. SCOTLAND, E.																			
Dyce	305	75	15*	—	—	—	—	25	69	61	13	125	9	29	5	20	29	4	45
Aberdeen	153	105	52	—	—	29, 31, 1	15	43	49	61	0	145	14	29	5	22	29	3	15
Edinburgh	485	39	31	—	—	—	—	82	74	12	0	360	11	31	4	17	1	22	20
6. SCOTLAND, W.																			
Eskdalemuir	825	50	22	—	—	29, 31	4	53	71	40	0	320	12	31	13	18	31	10	45
Paisley	188	81	15	—	—	—	—	16	122	30	0	305	18	2	2	17	30	23	25
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	14	54	61	39	245	10	28	23	18	28	23	0
South Shields	72	61	12	—	—	—	—	42	82	44	0	170	11	28	24	16	28	23	40
Spurn Head	66	40	‡	—	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																			
Gorleston	52	42	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Shoeburyness	103	90	‡	—	—	28, 30, 31, 3	23	95	45	5	0	205	17	30	20	23	30	23	35
4. MIDLAND COUNTIES.																			
Benson	270	84	‡	—	—	3	3	92	53	20	0	135	12	3	11	19	31	13	10
5. ENGLAND, S.E.																			
Brighton	261	53	6	—	—	30, 31	11	70	65	22	0	—	13	30	18	21	31	10	20
S. Farnboro' (Pyestk Tr)	443	152	‡	—	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—
Butler's Cross, S'y Plain	550	43	‡	31	2	29 to 31, 1, 3	35	101	21	0	9	350	18	31	10	22	31	9	35
Richmond (Kew Obs.)..	82	65	22	—	—	—	—	59	85	6	18	215	10	30	20	19	30	21	5
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fleetwood (Cup Anr.) ..	109	44	—	31	3	29, 31, 2, 3	18	69	71	7	0	315	22	31	11	—	—	—	—
Southport	80	62	48	31	3	29, 31, 2	14	55	94	2	0	315	19	31	12	24	31	12	30
Holyhead	60	40	‡	31	6	28, 31, 1 to 3	26	82	33	11	0	320	20	31	9	26	31	9	30
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	30, 31, 1 to 3	19	28 to 31, 1 to 3	59	63	26	1	0	155	24	2	24	30	3	0	55
Plymouth	185	88	2	2, 3	4	28, 30, 31, 1 to 3	33	95	17	19	0	—	18	2	24	24	2	23	20
Lyme Regis	556	61	‡	—	—	31, 1, 3	13	72	53	40	0	—	13	3	4	21	3	3	50
10. IRELAND, S.																			
Kingstown (Cup Anr.) ..	49	27	—	29	3	28, 29, 31, 1 to 3	41	59	50	15	0	245	21	29	6	—	—	—	—
Quilty	100	40	‡	—	—	28 to 31, 2	38	84	36	10	0	—	17	31	3	27	31	2	40
Cahirciveen (Val. Obs.)	98	41	‡	—	—	28, 30, 31, 1, 2	31	55	60	22	0	345	17	30	22	26	2	13	35
Weaver Pt.	160	30	‡	30, 31, 2	8	28 to 31, 1, 2	38	62	55	5	0	—	21	2	20	28	2	20	40
11 ENGLISH CHANNEL																			
Scilly	150	32	‡	31	5	28, 30, 31, 1, 2	32	78	46	7	0	135	21	31	3	30	31	3	30

More exactly the ranges adopted for this classification are > 17·2, 10·8 to 17·1, 5·5 to 10·7, 1·8 to 5·4, 0 to 1·5 m/s. [Vide Guide to Tables of the W.W.R.] * Above tops of trees
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory ** For Deerness the week ends at midnight on Friday.

First published for Temperature and Rainfall in 1878, for Sunshine in 1884, and for Pressure in 1914.

The list of "District-Value Stations," the observations from which are used in calculating these District-Values, will be given in the Introduction to the Annual Volume.

FIFTY-THIRD WEEK of 1919—December 28th, 1919, to January, 3rd, 1920.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Mean Pressure at M.S.L.
	At any "D.-V." Station.		Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	Highest	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	mm.	hr	hr.	%	mb.
0. SCOTLAND, NORTH ...	43	20	76·8	71·9	74·4	− 2·2	0	− 7	52	+18	4	− 1	0·63	16	− 14	1·0	+0·4	16	994
Eastern.																			
1. SCOTLAND, EAST ...	45	16	76·4	71·2	73·9	− 2·0	0	− 6	58	+16	5	+ 1	1·03	26	+ 10	1·8	+0·9	27	995
2. ENGLAND, N.E.	51	25	78·8	73·8	76·4	− 0·1	1	− 7	32	− 2	4	0	0·75	19	+ 7	1·0	−0·1	14	997
3. ENGLAND, EAST ...	55	24	80·2	74·7	77·6	+ 1·2	8	− 1	28	− 9	5	+ 1	0·79	20	+ 8	1·0	−0·2	14	1000
4. MIDLAND COUNTIES ...	53	24	79·6	74·6	77·2	+ 0·9	5	− 5	28	−11	5	+ 1	0·82	21	+ 6	0·8	−0·3	11	999
5. ENGLAND, S.E.	54	24	80·9	75·8	78·4	+ 1·0	12	− 2	22	− 6	6	+ 2	1·21	31	+ 16	0·9	−0·4	12	1000
Western.																			
6. SCOTLAND, WEST ...	50	23	77·8	73·5	75·8	− 1·4	0	− 10	35	+ 6	6	+ 1	1·41	36	+ 7	1·3	+0·4	18	997
7. ENGLAND, N.W.	52	25	79·5	75·2	77·4	+ 0·1	5	− 6	23	− 5	5	+ 1	0·91	23	+ 4	1·1	+0·1	15	996
8. ENGLAND, S.W.	55	25	81·3	76·1	78·8	+ 0·5	21	+ 4	12	− 9	7	+ 2	2·02	51	+ 26	0·9	−0·4	12	998
9. IRELAND, NORTH ...	52	28	79·9	74·4	77·3	− 0·5	7	− 7	29	+ 6	6	+ 1	1·43	36	+ 14	1·3	+0·2	18	995
10. IRELAND, SOUTH ...	55	24	80·9	75·0	78·1	− 0·7	12	− 9	27	+ 9	6	+ 1	1·67	42	+ 15	1·3	−0·1	17	995
11. ENGLISH CHANNEL ...	54	34	82·7	78·8	80·8	+ 0·5	29	+ 1	0	− 8	7	+ 2	2·01	51	+ 30	1·1	−0·7	14	1000

THE SEASON (Winter).—Aggregates, &c., for the Period of 5 Weeks, November 30th 1919, to January, 3rd, 1920.

0. SCOTLAND, NORTH ...	51	20	78·7	73·8	76·3	− 0·5	20	− 22	170	+ 18	27	0	6·63	168	− 2	0·7	+0·1	12	999
Eastern.																			
1. SCOTLAND, EAST ...	52	14	78·1	73·0	75·6	− 0·6	13	− 24	209	+ 18	25	+ 4	4·39	112	+ 25	1·5	+0·5	22	1001
2. ENGLAND, N.E.	55	23	79·5	74·4	77·0	0·0	26	− 20	147	− 4	25	+ 5	3·14	80	+ 16	1·1	−0·1	16	1005
3. ENGLAND, EAST ...	55	22	80·5	74·5	77·6	+ 0·6	60	+ 6	136	− 24	28	+ 7	4·20	106	+ 42	1·1	−0·2	15	1009
4. MIDLAND COUNTIES ...	56	17	80·7	75·0	77·9	+ 1·1	74	+ 16	115	− 57	26	+ 5	4·25	108	+ 31	1·1	0·0	14	1008
5. ENGLAND, S.E.	54	24	81·6	75·7	78·8	+ 0·8	107	+ 24	87	− 30	27	+ 7	5·05	129	+ 42	1·1	−0·3	14	1009
Western.																			
6. SCOTLAND, WEST ...	52	19	79·7	75·0	77·4	− 0·2	38	− 22	123	+ 2	29	+ 5	9·23	235	+ 77	1·3	+0·4	18	1004
7. ENGLAND, N.W.	55	24	80·7	76·0	78·4	+ 0·7	70	+ 6	86	− 34	27	+ 5	5·49	138	+ 34	1·1	+0·1	16	1006
8. ENGLAND, S.W.	55	24	82·2	76·8	79·6	+ 0·8	131	+ 31	43	− 40	32	+ 8	8·06	203	+ 62	1·4	0·0	18	1009
9. IRELAND, NORTH ...	53	20	81·3	75·5	78·6	+ 0·5	100	+ 28	94	− 11	33	+ 7	7·43	189	+ 74	1·2	0·0	17	1002
10. IRELAND, SOUTH ...	57	24	82·3	76·4	79·5	+ 0·4	133	+ 21	63	− 17	31	+ 6	6·49	164	+ 29	1·6	+0·2	20	1007
11. ENGLISH CHANNEL ...	54	33	83·1	79·3	81·3	+ 0·5	175	+ 12	3	− 22	31	+ 5	5·89	150	+ 30	1·4	−0·4	18	1012

THE YEAR 1919.—Aggregates, &c., for the Period of 53 Weeks, December 29th, 1918, to January, 3rd, 1920.

0. SCOTLAND, NORTH ...	78	9	82·8	76·9	79·7	− 0·8	1846	−269	1060	+ 251	240	−11	47·27	1203	−128	3·2	+0·2	27	1011
Eastern.																			
1. SCOTLAND, EAST ...	78	−6	83·5	76·2	79·7	− 0·9	2041	−290	1262	+ 303	206	− 5	30·84	790	− 15	3·8	+0·2	32	1011
2. ENGLAND, N.E.	85	11	84·6	77·5	80·9	− 0·6	2485	−210	925	+ 217	206	+14	27·60	702	+ 59	3·8	−0·1	31	1012
3. ENGLAND, EAST ...	88	10	85·3	77·6	81·3	− 0·8	2762	−336	934	+ 191	188	0	25·82	658	+ 41	4·1	−0·2	34	1013
4. MIDLAND COUNTIES ...	90	9	85·3	77·4	81·2	− 0·6	2777	−215	975	+ 164	185	− 2	29·23	743	+ 50	3·8	0·0	32	1014
5. ENGLAND, S.E.	86	16	85·9	78·4	82·0	− 0·7	3072	−276	718	+ 158	182	− 1	28·80	730	+ 15	4·2	−0·2	35	1014
Western.																			
6. SCOTLAND. WEST ...	83	12	84·2	77·5	80·8	− 0·7	2304	−297	862	+ 236	212	−11	43·39	1105	−124	4·0	+0·3	34	1013
7. ENGLAND, N.W.	84	10	84·6	78·3	81·3	− 0·7	2563	−277	735	+ 169	195	−10	32·08	813	−103	3·9	+0·1	32	1013
8. ENGLAND, S.W.	86	15	85·5	78·8	82·0	− 0·7	2941	−257	599	+ 164	201	− 6	39·11	992	− 28	4·4	+0·1	37	1014
9. IRELAND, NORTH ...	78	12	84·7	78·2	81·3	− 0·6	2544	−179	690	+ 174	237	− 7	36·63	925	− 68	3·7	+0·2	31	1012
10. IRELAND, SOUTH ...	80	15	85·7	78·9	82·2	− 0·5	2999	−182	590	+ 191	221	+ 2	34·01	864	−182	4·1	+0·2	34	1014
11. ENGLISH CHANNEL ...	85	26	86·4	81·1	83·6	− 0·5	3547	−294	170	+ 35	209	− 7	39·60	1014	+154	4·9	−0·2	40	1015
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	m.b.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics: January 9th, 1920.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1919. FIRST QUARTER (JANUARY, FEBRUARY, MARCH).

Forty-second Year.
VOL. XXXVI. [*New Series.*] } APPENDIX I. 1st Quarter.

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SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-NINE YEARS, 1881–1919.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE NORMALS FOR THE 35 YEARS, 1881–1915.

YEARS.	0. SCOTLAND, N.			Eastern Districts. 1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E.			DISTRICTS 1–5.			Western Districts. 6. SCOTLAND, W.			7. ENGLAND, N.W. AND N. WALES.			8. S. WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			DISTRICTS 6–10.			11. ENGLISH CHANNEL.			DISTRICTS 1–10 COMBINED.		
	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.
		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm	%		mm.	%		mm.	%		mm.	%		mm.	%		mm	%		mm.	%		mm.	%		mm.	%		mm	%
LUSTRA.* 1881–1885 ..	65	*361*	96	49	*211*	*114*	45	130	100	44	*124*	97	45	163	109	43	163	101	45	157	104	58	*335*	*109*	51	224	108	53	246	100	61	239	101	57	302	115	56	269	107	57	208	101	51	213	165
1886–1890 ..	66	*368*	98	52	168	91	47	130	100	47	*114*	*89*	43	132	89	44	137	85	47	137	91	53	274	89	50	175	85	49	211	86	56	213	90	50	241	92	52	224	89	52	180	87	49	173	86
1891–1895 ..	64	353	94	48	173	94	49	130	100	48	*112*	*88*	45	124	83	43	135	83	47	135	89	53	267	86	47	170	82	47	206	84	55	198	84	49	216	82	50	211	84	52	180	87	49	173	86
1896–1900 ..	67	371	99	53	170	92	49	137	105	49	*137*	*107*	46	155	104	44	165	102	48	152	101	58	*292*	*95*	53	211	102	54	264	108	61	221	94	53	251	95	56	249	99	58	211	102	52	201	100
1901–1905 ..	69	*419*	*112*	55	193	104	47	117	90	48	*117*	*91*	48	157	105	48	168	104	49	150	99	61	*348*	*113*	56	213	103	54	254	104	67	262	111	60	200	110	60	274	108	61	221	107	51	213	105
1906–1910 ..	69	384	102	52	188	102	47	124	95	49	*127*	*99*	46	135	91	48	155	96	48	145	96	56	323	105	55	226	109	54	234	96	66	267	113	63	244	93	59	259	103	56	196	95	54	203	100
1911–1915 ..	65	368	98	57	198	107	55	144	111	55	162	127	50	177	119	51	209	129	54	178	118	58	323	105	54	229	111	59	299	122	60	246	104	65	296	113	59	278	110	59	247	120	57	228	113
35 years normal ..	**67**	**375**	—	**53**	**185**	—	**48**	**130**	—	**48**	**128**	—	**47**	**149**	—	**46**	**162**	—	**48**	**151**	—	**56**	**309**	—	**52**	**207**	—	**53**	**245**	—	**61**	**236**	—	**56**	**263**	—	**56**	**252**	—	**57**	**206**	—	**52**	**202**	—
1913	66	384	102	59	216	117	55	160	123	52	140	110	53	208	134	50	191	118	55	183	121	59	338	109	58	254	143	62	328	134	64	277	117	67	348	132	61	310	123	58	244	118	58	246	122
1914	68	411	110	57	224	121	54	119	92	52	170	133	51	150	101	53	239	148	53	180	119	65	368	119	58	241	116	60	325	133	68	305	129	72	351	133	65	318	126	63	274	133	59	249	123
1915	67	374	100	55	206	111	60	174	134	61	190	148	49	194	130	50	241	149	55	201	133	56	319	103	51	244	118	55	305	124	60	229	97	58	275	105	56	274	109	56	264	128	56	238	118
1916	73	471	126	63	253	137	57	180	138	59	211	165	58	235	158	60	249	154	59	226	154	62	274	89	61	234	113	65	309	126	63	215	91	71	246	94	65	254	101	70	299	145	62	241	119
1917	58	237	63	50	133	72	50	142	109	50	123	96	44	128	86	43	122	75	48	130	86	44	166	54	42	153	74	41	165	67	54	161	68	51	181	69	46	165	66	49	178	86	47	148	73
1918	66	373	99	53	172	93	46	114	88	42	109	85	42	133	89	40	142	88	45	134	89	59	328	106	47	192	93	47	229	94	58	233	99	61	291	111	54	235	101	49	135	66	50	195	96
1919	57	223	59	53	186	101	56	200	154	56	196	153	53	262	176	60	276	176	56	224	149	48	266	83	51	239	115	59	374	153	57	215	94	62	292	100	55	269	107	71	416	202	58	247	122

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Investigation having shown that in some districts the effects of changes in the list of stations were considerable, the earlier figures were revised in 1907 to make them comparable with the current ones. All values revised are shown in italic type.

NOTE.—Prior to the year 1914 the values were for periods of 13 weeks coinciding most nearly with the periods of three months January, February, March, etc. In the years 1880, 1886, 1890, 1896, 1902, 1908, 1913, the values for the fourth quarter refer to a period of 14 weeks. From 1914 the values refer to the period January 1st to March 31st.

TABLE II.—Mean Temperature in Degrees Absolute and Deviation from the Normal for the 35 years, 1881-1915.

Years.		0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E		4. Midland Counties.		5. England, S.E.		Districts 1-5.		Western Districts. 6. Scotland, W.		7. England, N.W. and N. Wales.		8. S. Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Districts, 6-10.		11. English Channel.		Districts 1-10 combined.	
		Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.
Lustra.*	1881-1885 ..	276·4	− 0·2	276·3	0·0	277·1	0·0	277·3	+ 0·2	277·4	+ 0·3	278·2	+ 0·4	277·3	+ 0·2	277·4	0·0	277·7	+ 0·1	278·9	+ 0·6	278·2	+ 0·1	279·2	+ 0·3	278·3	+ 0·2	280·2	+ 0·2	277·8	+ 0·2
	1886-1890 ..	276·4	− 0·2	276·2	− 0·1	276·5	− 0·6	276·0	− 1·1	276·2	− 0·9	276·8	− 1·0	276·3	− 0·8	277·0	− 0·4	276·8	− 0·8	277·6	− 0·7	277·7	− 0·4	278·4	− 0·5	277·5	− 0·6	279·2	− 0·8	276·9	− 0·7
	1891-1895 ..	276·0	− 0·6	275·7	− 0·6	276·3	− 0·8	276·1	− 1·0	276·2	− 0·9	276·9	− 0·9	276·2	− 0·9	276·7	− 0·7	276·9	− 0·7	277·7	− 0·6	277·5	− 0·6	278·4	− 0·5	277·4	− 0·7	279·4	− 0·6	276·8	− 0·8
	1896-1900 ..	276·7	+ 0·1	276·6	+ 0·3	277·4	+ 0·3	277·5	+ 0·4	277·5	+ 0·4	278·4	+ 0·6	277·5	+ 0·4	277·7	+ 0·3	278·1	+ 0·5	278·9	+ 0·6	278·3	+ 0·2	279·3	+ 0·4	278·4	+ 0·3	280·7	+ 0·7	278·0	+ 0·8
	1901-1905 ..	276·8	+ 0·2	276·5	+ 0·2	277·4	+ 0·3	277·5	+ 0·4	277·4	+ 0·3	278·1	+ 0·3	277·4	+ 0·3	277·7	+ 0·3	278·1	+ 0·2	278·7	+ 0·4	278·1	0·0	279·1	+ 0·2	278·2	+ 0·1	280·3	+ 0·3	277·8	+ 0·2
	1906-1910 ..	276·5	− 0·1	276·2	− 0·1	276·9	− 0·2	277·0	− 0·1	276·9	− 0·2	277·4	− 0·4	276·9	− 0·2	277·4	0·0	277·3	− 0·3	277·9	− 0·4	278·2	+ 0·1	278·9	0·0	277·9	− 0·2	279·9	− 0·1	277·4	− 0·2
	1911-1915 ..	277·2	+ 0·6	276·7	+ 0·4	277·7	+ 0·6	278·1	+ 1·0	277·7	+ 0·6	278·5	+ 0·7	277·7	+ 0·6	277·7	+ 0·3	278·2	+ 0·6	278·7	+ 0·4	278·3	+ 0·2	279·1	+ 0·2	278·4	+ 0·3	280·3	+ 0·3	278·1	+ 0·5
35 years normal	..	**276·6**	—	**276·3**	—	**277·1**	—	**277·1**	—	**277·1**	—	**277·8**	—	**277·1**	—	**277·4**	—	**277·6**	—	**278·3**	—	**278·1**	—	**278·9**	—	**278·1**	—	**280·0**	—	**277·6**	—
1913 ..	..	277·2	+ 0·6	276·5	+ 0·2	277·4	+ 0·3	278·4	+ 1·3	277·8	+ 0·7	278·9	+ 1·1	277·8	+ 0·7	277·7	+ 0·3	278·1	+ 0·5	279·0	+ 0·7	278·4	+ 0·3	279·0	+ 0·1	278·4	+ 0·3	280·8	+ 0·8	278·2	+ 0·6
1914 ..	..	277·4	+ 0·8	276·9	+ 0·6	278·3	+ 1·2	278·4	+ 1·3	278·3	+ 1·2	278·6	+ 0·8	278·1	+ 1·0	278·1	+ 0·7	278·7	+ 1·1	279·0	+ 0·7	278·6	+ 0·5	279·4	+ 0·5	278·8	+ 0·7	280·3	+ 0·3	278·4	+ 0·8
1915 ..	..	276·6	0·0	276·1	− 0·2	277·2	+ 0·1	277·4	+ 0·3	277·2	+ 0·1	277·9	+ 0·1	277·2	+ 0·1	277·1	− 0·3	277·6	0·0	278·1	− 0·2	277·5	− 0·6	278·2	− 0·7	277·7	− 0·4	279·7	− 0·3	277·4	− 0·2
1916 ..	..	276·8	+ 0·2	276·3	0·0	277·5	+ 0·4	277·9	+ 0·8	277·6	+ 0·5	278·5	+ 0·7	277·6	+ 0·5	277·5	+ 0·1	278·2	+ 0·6	278·6	+ 0·3	278·1	0·0	278·9	. 0·0	278·2	+ 0·1	280·1	+ 0·1	277·9	+ 0·3
1917 ..	..	275·8	− 1·0	274·7	− 1·6	275·0	− 2·1	274·9	− 2·2	274·7	− 2·4	275·4	− 2·4	275·0	− 2·1	275·7	− 1·7	275·4	− 2·2	275·9	− 2·4	276·5	− 1·6	276·9	− 2·0	276·1	− 2·0	277·7	− 2·3	275·5	− 2·1
1918 ..	..	277·2	+ 0·6	276·8	+ 0·5	277·9	+ 0·8	278·0	+ 0·9	278·3	+ 1·2	278·6	+ 0·8	277·9	+ 0·8	278·0	+ 0·6	278·7	+ 1·1	279·3	+ 1·0	279·0	+ 0·9	279·9	+ 1·0	279·0	+ 0·9	280·4	+ 0·4	278·5	+ 0·9
1919 ..	..	275·1	− 1·5	274·4	− 1·9	275·7	− 1·4	275·9	− 1·2	275·5	− 1·6	276·8	− 1·0	275·6	− 1·5	275·9	− 1·5	276·1	− 1·5	277·1	− 1·2	276·9	− 1·2	277·7	− 1·2	276·7	− 1·4	279·3	− 0·7	276·2	− 1·4

The estimates of mean temperature are made from the observed maximum and minimum readings by the rules as detailed in the Guide to the Weekly Weather Report.

TABLE III.—Bright Sunshine, in Thousand-hours, and Daily Means, with Percentages of the Normal for the 35 Years, 1881-1915.

Years.		0. Scotland, N.			Eastern Districts. 1. Scotland, E.			2. England, N.E.			3. England, E			4. Midland Counties.			5. England, S.E.			Districts 1-5.			Western Districts. 6. Scotland, W.			7. England, N.W. and N. Wales.			8. S. Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts, 6-10.			11. English Channel.			Districts 1-10 combined.		
		Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.
Lustra.*	1881-1885 ..	·17	1·9	% 97	·24	2·6	% 105	·22	2·4	% 97	·25	2·7	% 98	·22	2·4	% 98	·25	2·7	% 98	·24	2·6	% 100	·19	2·1	% 93	·19	2·1	% 87	·24	2·6	% 94	·22	2·4	% 102	·25	2·7	% 100	·22	2·4	% 96	·32	3·5	% 104	·23	2·5	% 98
	1886-1890 ..	·16	1·8	92	·21	2·3	93	·23	2·5	95	·23	2·5	91	·20	2·2	90	·20	2·2	80	·21	2·3	84	·20	2·2	97	·21	2·3	95	·24	2·6	94	·20	2·2	93	·25	2·7	100	·22	2·4	96	·30	3·3	98	·22	2·4	94
	1891-1895 ..	·21	2·3	117	·26	2·9	117	·29	3·2	122	·29	3·2	116	·27	3·0	123	·30	3·3	120	·28	3·1	119	·24	2·6	114	·24	2·6	107	·30	3·3	119	·24	2·6	110	·27	3·0	111	·26	2·9	115	·36	3·9	116	·27	3·0	117
	1896-1900 ..	·18	2·0	102	·22	2·4	97	·23	2·5	95	·25	2·7	98	·22	2·4	98	·24	2·6	94	·23	2·5	92	·20	2·2	97	·22	2·4	99	·24	2·6	94	·22	2·4	102	·25	2·7	100	·23	2·5	100	·28	3·1	93	·23	2·5	98
	1901-1905 ..	·18	1·8	92	·19	2·1	85	·22	2·4	91	·25	2·7	98	·19	2·1	86	·24	2·6	94	·22	2·4	92	·19	2·1	93	·21	2·3	95	·25	2·5	90	·20	2·2	93	·22	2·4	89	·21	2·3	92	·27	3·0	90	·22	2·4	94
	1906-1910 ..	·19	2·1	107	·25	2·7	109	·28	3·1	118	·28	3·1	112	·26	2·9	119	·30	3·3	120	·27	3·0	115	·22	2·4	106	·26	2·9	120	·29	3·2	115	·22	2·4	102	·24	2·6	96	·25	2·7	107	·33	3·6	107	·26	2·9	113
	1911-1915 ..	·17	1·9	97	·20	2·3	93	·21	2·3	87	·22	2·5	91	·19	2·1	86	·23	2·5	91	·21	2·3	88	·19	2·1	93	·21	2·4	98	·22	2·4	86	·20	2·3	97	·23	2·6	96	·21	2·3	92	·26	2·9	87	·21	2·3	90
35 years normal	..	**·18**	**2·0**	—	**·23**	**2·5**	—	**·24**	**2·6**	—	**·25**	**2·8**	—	**·22**	**2·4**	—	**·25**	**2·8**	—	**·24**	**2·6**	—	**·21**	**2·3**	—	**·22**	**2·4**	—	**·25**	**2·8**	—	**·22**	**2·4**	—	**·24**	**2·7**	—	**·23**	**2·5**	—	**·31**	**3·4**	—	**·23**	**2·6**	—
1913 ..	..	·15	1·6	81	·19	2·1	82	·20	2·2	81	·22	2·5	89	·18	2·0	83	·23	2·6	93	·23	2·3	83	·17	1·8	80	·20	2·2	90	·22	2·4	86	·19	2·1	87	·20	2·2	82	·20	2·1	85	·27	3·0	87	·20	2·2	85
1914 ..	..	·17	1·9	98	·21	2·3	91	·21	2·3	57	·25	2·7	96	·18	2·0	83	·25	2·7	96	·22	2·4	90	·16	1·8	78	·19	2·1	86	·20	2·2	79	·17	1·9	78	·21	2·3	84	·19	2·1	81	·26	2·8	8	·20	2·2	86
1915 ..	..	·15	1·7	89	·20	2·2	88	·22	2·5	91	·24	2·7	96	·22	2·4	100	·23	2·6	93	·22	2·5	92	·24	2·7	117	24	2·6	107	·24	2·8	100	·22	2·4	101	·27	3·0	109	·24	2·7	106	·27	3·0	89	·23	2·6	99
1916 ..	..	·17	1·9	94	·20	2·2	89	·20	2·2	83	·18	2·0	73	·16	1·8	74	·20	2·2	79	·19	2·1	80	·19	2·1	93	·16	1·8	76	·20	2·2	80	·21	2·3	97	·21	2·3	87	·20	2·2	86	·24	2·6	76	·20	2·1	83
1917 ..	..	·16	1·8	89	·22	2·4	95	·17	1·9	74	·15	1·7	63	·14	1·6	64	·20	2·2	79	·18	2·0	75	·20	2·2	97	·19	2·1	88	·25	2·8	101	·21	2·3	97	·23	2·6	96	·22	2·4	96	·26	2·9	85	·20	2·2	86
1918 ..	..	·14	1·6	81	·18	2·0	80	·22	2·4	91	·27	3·0	110	·21	2·3	95	·29	3·2	116	·23	2·6	99	·16	1·8	79	·21	2·3	94	·24	2·7	99	·19	2·1	90	·23	2·5	91	·21	2·3	91	·33	3·7	109	·22	2·4	95
1919 ..	..	·22	2·4	121	·21	2·3	92	·18	2·0	76	·18	2·0	72	·19	2·1	85	·19	2·1	76	·19	2·1	80	·21	2·3	103	·21	2·3	93	·25	2·8	101	·23	2·6	112	·23	2·7	98	·22	2·5	101	·25	2·8	82	·21	2·3	90

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Meteorological Office, South Kensington, London, S.W. 7.
9th May, 1919.

NAPIER SHAW,
Director.

(24290—19.) Wt. 162—833/512. 625. 8/19. D & S. G. 17/37.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1919. SECOND QUARTER (APRIL, MAY, JUNE).

Forty-second Year. } APPENDIX I.
VOL. XXXVI. [*New Series.*] } 2nd Quarter.

MAY AND EARLY JUNE WARM, BRIGHT, AND DRY; APRIL AND LATE JUNE UNSETTLED, COOL.

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SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-NINE YEARS, 1881–1919.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE NORMALS FOR THE 35 YEARS, 1881–1915.

YEARS.	0. Scotland, N.			Eastern Districts. 1. Scotland, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Districts 1–5.			Western Districts. 6. Scotland, W.			7. England, N.W. and N. Wales.			8. S. Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts 6–10.			11. English Channel.			Districts 1–10 combined.		
	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.
		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm	%
Lustra.* 1881–1885 ..	51	*216*	*98*	44	*163*	*102*	43	147	107	39	150	110	41	165	109	38	142	104	41	152	106	47	*213*	*99*	42	178	101	44	183	104	52	183	95	46	196	101	46	191	101	45	142	101	44	173	103
1886–1890 ..	54	*196*	*89*	43	152	96	40	122	89	41	130	96	41	163	108	40	145	106	41	142	99	45	224	104	41	165	97	42	165	94	46	180	94	46	191	98	44	185	97	46	150	106	43	165	99
1891–1895 ..	48	180	82	42	140	88	40	132	96	36	122	90	35	130	86	32	97	71	37	124	87	42	170	79	40	152	89	35	135	77	47	168	88	41	180	92	41	160	84	36	119	84	39	142	85
1896–1900 ..	54	226	103	48	175	110	42	137	99	40	137	101	40	147	97	37	127	93	42	145	101	50	*239*	*111*	45	185	108	41	185	105	55	231	120	47	216	111	48	211	111	42	142	101	45	178	107
1901–1905 ..	54	231	105	48	150	94	40	127	92	39	145	107	40	145	96	39	155	114	41	145	101	46	*212*	*101*	44	150	88	41	185	105	53	180	94	46	183	94	46	183	96	45	157	111	44	163	98
1906–1910 ..	59	246	112	52	183	115	47	155	112	43	157	115	46	170	113	43	163	120	46	165	115	51	246	114	50	201	118	48	203	115	58	221	115	56	211	108	53	218	115	41	142	101	50	191	114
1911–1915 ..	52	242	110	43	147	92	36	143	104	31	111	82	35	135	89	31	120	88	36	131	92	46	205	95	41	165	97	39	177	101	47	179	93	48	188	96	44	183	96	39	132	94	40	157	94
35 years normal ..	**53**	**220**	—	**46**	**159**	—	**41**	**138**	—	**39**	**136**	—	**40**	**151**	—	**37**	**136**	—	**41**	**143**	—	**47**	**216**	—	**43**	**171**	—	**41**	**176**	—	**51**	**192**	—	**47**	**195**	—	**46**	**190**	—	**42**	**141**	—	**44**	**167**	—
1913	57	274	125	48	178	112	44	155	112	38	122	90	44	165	109	38	137	101	42	152	106	58	289	124	52	221	129	50	231	131	63	269	140	62	295	151	57	257	135	49	157	111	50	203	121
1914	53	231	105	38	127	80	32	124	90	33	97	71	32	117	77	28	91	67	33	112	78	43	140	65	36	119	70	34	147	84	43	145	76	39	109	56	39	132	69	29	122	87	36	122	73
1915	45	178	81	36	109	69	25	81	59	28	113	83	29	112	74	28	140	103	29	111	78	36	155	72	34	129	75	34	154	88	40	134	70	43	140	72	37	142	75	37	114	81	33	127	76
1916	61	265	121	52	255	160	45	153	111	44	148	109	43	137	91	40	133	98	45	166	116	53	266	123	48	205	120	45	179	102	60	270	141	59	257	132	52	236	124	39	90	64	49	201	120
1917	57	200	91	39	164	103	38	120	87	34	122	90	37	163	108	33	171	126	36	148	103	46	221	102	40	177	104	40	192	109	51	205	107	45	165	85	44	192	101	39	148	105	40	170	102
1918	46	161	73	40	112	70	37	113	82	37	142	104	35	135	89	36	131	96	37	126	88	39	149	69	36	141	82	34	124	70	44	129	67	40	142	73	38	137	72	32	106	75	38	132	80
1919	56	275	125	43	138	87	39	84	61	32	107	79	36	96	64	28	96	71	36	104	73	51	213	99	43	121	71	36	118	67	57	198	103	48	174	89	47	165	87	33	109	77	42	135	81

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Investigation having shown that in some districts the effects of changes in the list of stations were considerable, the earlier figures were revised in 1907 to make them comparable with the current ones. All values revised are shown in italic type.

NOTE.—Prior to the year 1914 the values were for periods of 13 weeks coinciding most nearly with the periods of three months April, May, June, etc. In the years 1880, 1886, 1890, 1896, 1902, 1908, 1913, the values for the fourth quarter refer to a period of 14 weeks. From 1914 the values refer to the period April 1st to June 30th.

TABLE II.—Mean Temperature in Degrees Absolute and Deviation from the Normal for the 35 years, 1881-1915.

Lustra.* / Years	0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England E		4. Midland Counties.		5. England, S.E.		Districts 1-5.		Western Districts. 6. Scotland, W.		7. England, N.W. and N. Wales.		8. S. Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Districts, 6-10.		11. English Channel.		Districts 1-10 combined.	
	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.
1881-1885 ..	281·7	0·0	282·1	− 0·1	282·8	− 0·1	283 8	+ 0·1	283·7	0·0	284·4	0·0	283·3	− 0·1	282·7	− 0·3	283·2	− 0·2	283·6	− 0·4	283·1	− 0·1	283·6	− 0·4	283·3	− 0·2	284 3	− 0·4	283 3	− 0·2
1886-1890 ..	281·7	0·0	282·2	0·0	282·5	− 0·4	283 6	− 0·1	283·5	− 0·2	284·2	− 0·2	283·2	− 0·2	282·8	− 0·2	283·2	− 0·2	283·8	− 0·2	283·2	0·0	283·9	− 0·1	283·4	− 0·1	284·4	− 0·3	283·3	− 0·2
1891-1895 ..	282·0	+ 0 3	282·4	+ 0·2	282·8	− 0·1	283·8	+ 0·1	284·0	+ 0 3	284 8	+ 0·4	283·6	+ 0·2	283 3	+ 0·3	283·8	+ 0·4	284·4	+ 0·4	283·7	+ 0·5	284·4	+ 0·4	283 9	+ 0·4	285 2	+ 0·5	283·8	+ 0·3
1896-1900	281·9	+ 0·2	282·4	+ 0·2	282·9	0·0	283·8	+ 0·1	283·8	+ 0·1	284·6	+ 0·2	283·5	+ 0·1	283·2	+ 0·2	283·8	+ 0·4	284·3	+ 0·3	283·5	+ 0·3	284 4	+ 0·4	283·8	+ 0·3	285 0	+ 0·3	283·7	+ 0·2
1901-1905 ..	281·6	− 0·1	281·9	− 0·3	282·8	− 0·1	283·6	− 0·1	283·3	− 0·4	284·0	− 0·4	283·1	− 0·3	282·8	− 0·2	283·3	− 0·1	283·8	− 0·2	282·9	− 0·3	283·8	− 0·2	283·3	− 0 2	284·7	0 0	283·2	− 0 3
1906-1910 ..	281·3	− 0·4	281 7	− 0·5	282·9	0·0	283·7	0·0	283·4	− 0·3	283·9	− 0·5	283·2	− 0 2	282 7	− 0·3	283·1	− 0·3	283·5	− 0·5	282·7	− 0·5	283·6	− 0·4	283·1	− 0 4	284 6	− 0·1	283·2	− 0·3
1911-1915 ..	281·9	+ 0·2	282·4	+ 0·2	283 4	+ 0·5	284·4	+ 0·7	284·1	+ 0·4	284·6	+ 0·2	283·8	+ 0·4	283·3	+ 0·3	283·7	+ 0·3	284·3	+ 0·3	283·2	0·0	284 2	+ 0·2	283·7	+ 0·2	285·0	+ 0·3	283·8	+ 0·3
35 years normal ..	**281·7**	—	**282·2**	—	**282·9**	—	**283·7**	—	**283·7**	—	**284·4**	—	**283·4**	—	**283·0**	—	**283·4**	—	**284·0**	—	**283·2**	—	**284·0**	—	**283·5**	—	**284·7**	—	**283·5**	—
1913 ..	281·7	0·0	281·9	− 0·3	283·2	+ 0·3	284·2	+ 0·5	283·7	0·0	284·3	− 0·1	283·4	0·0	282·7	− 0·3	283·3	− 0·1	283·7	− 0·3	282 5	− 0·7	283·2	− 0 8	283·1	− 0·4	284 3	− 0·4	283 3	− 0 2
1914	282·3	+ 0·6	282·9	+ 0·7	283·9	+ 1·0	284·6	+ 0·9	284·5	+ 0·8	285·0	+ 0·6	284·2	+ 0·8	283·6	+ 0·6	283·9	+ 0·5	284·8	+ 0·8	283·5	+ 0·3	284 6	+ 0·6	284·1	+ 0·6	285 4	+ 0·7	284·1	+ 0·6
1915	281 4	− 0·3	281·8	− 0·4	282·9	0·0	283·8	+ 0·1	283·7	0·0	284·3	− 0·1	283·3	− 0·1	283·1	+ 0·1	283·4	0·0	284·1	+ 0·1	283 2	0·0	284·5	+ 0·5	283·7	+ 0·2	284 8	+ 0·1	283·5	0·0
1916	281·2	− 0·5	281·4	− 0·8	282·7	− 0·2	283·6	− 0·1	283·3	− 0·4	284·0	− 0·4	283·0	− 0·4	282·4	− 0·6	283·0	− 0·4	283·4	− 0·6	282·2	− 1·0	283·4	− 0·6	282 9	− 0·6	284·4	− 0·3	283·0	− 0·5
1917	281·2	− 0·5	281·5	− 0·7	282·9	0 0	284·4	+ 0·7	284·1	+ 0·4	284·7	+ 0·3	283·5	+ 0·1	282·6	− 0·4	283·4	0·0	283·9	− 0 1	282·6	− 0·6	283·9	− 0·1	283 3	− 0·2	284·9	+ 0·2	283·4	− 0·1
1918 ..	281·9	+ 0·2	282·1	− 0·1	283 4	+ 0·5	283 7	0·0	284·1	+ 0·4	284·4	0·0	283·5	+ 0·1	283·2	+ 0·2	283·7	+ 0·3	284·1	+ 0·1	283·5	+ 0·3	284·5	+ 0·5	283·8	+ 0·3	285·0	+ 0·3	283·7	+ 0·2
1919	282·3	+ 0·6	282·7	+ 0·5	284·0	+ 1·1	284·3	+ 0·6	284·6	+ 0·9	284·7	+ 0·3	284·1	+ 0·7	283·5	+ 0·5	284·2	+ 0·8	284·2	+ 0·2	283·6	+ 0·3	284·5	+ 0·5	284·0	+ 0·5	284·9	+ 0·2	284·0	+ 0·5

The estimates of mean temperature are made from the observed maximum and minimum readings by the rules as detailed in the Guide to the Weekly Weather Report.

TABLE III.—Bright Sunshine, in Thousand-hours, and Daily Means, with Percentages of the Normal for the 35 Years. 1881-1915.

Lustra.* / Years	0. Scotland, N.			Eastern Districts. 1. Scotland, E.			2. England, N.E.			3. England E			4. Midland Counties.			5. England, S.E.			Districts 1-5.			Western Districts. 6. Scotland, W.			7. England, N.W. and N. Wales.			8. S. Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts, 6-10.			11. English Channel.			Districts 1-10 combined.		
	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th. hrs	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.
1881-1885 ..	·45	4·9	% 98	·50	5·5	% 98	·56	6·1	% 105	·60	6·6	% 103	·52	5·8	% 100	·58	6·4	% 98	·55	6·1	% 101	·54	5·9	% 100	·54	6·0	% 99	·57	6·2	% 98	·50	5·5	% 101	·56	6·1	% 103	·54	6·0	% 100	·70	7·7	% 104	·54	6·0	% 100
1886-1890 ..	·41	4·5	90	·51	5·6	100	·49	5·4	92	·53	5·9	92	·48	5·2	91	·53	5·8	90	·51	5·5	93	·53	5·9	99	·50	5·5	92	·55	6·0	95	·49	5·4	98	·54	5·9	100	·52	5·7	97	·64	7·0	95	·52	5·7	95
1891-1895 ..	·51	5·6	113	·55	6·0	108	·57	6·3	107	·59	6·4	100	·56	6·2	108	·64	7·0	108	·58	6·4	106	·56	6·1	104	·55	6·1	101	·63	6·9	108	·52	5·7	104	·56	6·1	103	·56	6·2	114	·75	8·3	112	·57	6·3	106
1896-1900 ..	·47	5·2	104	·50	5·5	98	·51	5·6	96	·57	6·2	97	·53	5·8	101	·59	6·5	100	·51	5·9	99	·53	5·9	99	·57	6·3	104	·60	6·6	103	·49	5·4	98	·54	5 9	99	·55	6·0	101	·69	7·5	101	·54	6·0	100
1901-1905 ..	48	5·3	105	·51	5·6	100	·56	6·2	105	·59	6·5	101	·52	5·7	99	·59	6·4	100	·55	6·1	101	·55	6·1	102	·59	6·4	107	·56	6·2	97	·52	5·7	104	·54	5·9	100	·55	6·1	102	·66	7·2	97	55	6·1	101
1906-1910	·45	4·9	98	·49	5·4	96	·50	5·5	94	·59	6·4	100	·51	5·6	97	·61	6·7	103	·54	5 9	99	·52	5·7	96	·53	5·8	96	·57	6·2	98	·47	5·2	95	·51	5·6	95	·52	5·7	96	·65	7·1	96	·5	5·8	97
1911-1915 .	·44	4·9	97	·50	5·6	100	·53	5·9	101	·61	6·8	106	·53	5·9	103	·63	7·0	107	·57	6·3	103	·52	5·8	98	·56	6·2	102	·57	6·3	97	·49	5·4	98	·52	5·8	97	·53	5·9	99	·63	7·0	95	·55	6·1	101
35 years normal	**46**	**5 0**	—	**·51**	**5·6**	—	**·53**	**5·9**	—	**·58**	**6·4**	—	**·52**	**5 7**	—	**·60**	**6·5**	—	**·55**	**6·0**	—	**·54**	**5·9**	—	**·55**	**6·0**	—	**·58**	**6·4**	—	**·50**	**5·5**	—	**·54**	**5 9**	—	**54**	**5·9**	—	**·67**	**7·4**	—	**·54**	**6·0**	—
1913 ..	·39	4·3	85	·46	5·0	89	·47	5·1	87	·52	5·8	91	·46	5·0	8	·54	6·0	92	·4	5·4	90	·41	4·5	76	·43	5·3	87	·48	5·3	82	·41	4·5	83	·46	5·0	84	·44	4·8	81	·53	5·8	78	46	5·1	85
1914	·42	4·7	93	·57	6·2	111	·62	6·8	115	·69	7·5	117	·62	6·8	11	·7	7·9	121	·64	7 1	118	·54	6·0	101	·59	6·5	107	·65	7·2	111	·50	5·5	101	·59	6·5	110	·57	6 3	106	·68	7·5	101	·61	6·7	112
1915	·52	5·8	115	·57	6·3	112	·60	6·6	112	·63	6·9	107	·58	6·3	11	·6	6·7	103	·60	6·6	10	·61	6·7	113	64	7·0	116	·55	6·0	93	·54	6·0	110	·50	5·5	93	·57	6·2	10	·56	6·1	82	59	6·4	107
1916 ..	·35	3·9	77	·49	4·4	79	·43	4·8	82	·51	5·7	89	·45	5·0	8	5	6·3	96	·47	5·2	87	·52	5·8	98	·49	5·5	91	·55	6·1	95	·45	5·0	92	·53	5·9	99	·51	5·7	96	·64	7·1	96	·49	5·5	92
1917	·45	4·9	98	·59	5·4	97	·52	5·9	100	·61	6·7	105	·52	5·7	99	·6	6·8	10	·56	6·1	101	·49	5·4	91	·54	5·9	98	·61	6·7	104	·44	4·8	88	·51	5 6	94	·52	5·7	96	·72	7 9	107	·54	5·9	98
1918	·45	5·0	100	·49	5·6	100	·52	5·8	98	·57	6·3	98	·50	5·6	98	·58	6·5	99	·53	5·9	98	·58	6·4	108	·59	6·5	107	·64	7·1	110	·53	5·9	108	·58	6·5	110	·58	6·5	109	·72	8·0	108	·56	6·2	104
1919	·43	4·8	95	·49	5·4	96	·53	5·9	100	·61	6·8	106	·53	5·9	103	·6	6·7	103	·56	6·1	101	·51	5·7	97	·55	6·1	100	·56	6·2	96	·49	5·4	98	·50	5·5	93	·52	5·8	97	·63	7·0	95	·54	6·0	99

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Meteorological Office, South Kensington, London, S.W. 7.
July 28th, 1919.

NAPIER SHAW,
Director.

(25743–19) Wt. 169—833/512 625 11/19 H. St. G 17/37

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1919. THIRD QUARTER (JULY, AUGUST, SEPTEMBER).

Forty-second Year. } APPENDIX I.
VOL. XXXVI. [*New Series.*] } 3rd Quarter.

RATHER COOL; IN THE NORTHERN AND WESTERN DISTRICTS ABUNDANT SUNSHINE AND LESS RAIN THAN USUAL.

[*Price 1d. Net.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE OF THE THIRD QUARTER FOR THE THIRTY-NINE YEARS, 1881–1919.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE NORMALS FOR THE 35 YEARS, 1881–1915.

YEARS.	0. SCOTLAND, N.			Eastern Districts. 1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E.			DISTRICTS 1–5.			Western Districts. 6. SCOTLAND, W.			7. ENGLAND, N.W. AND N. WALES.			8. S. WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			DISTRICTS 6–10.			11. ENGLISH CHANNEL.			DISTRICTS 1–10 COMBINED.		
	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.
		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%
LUSTRA.* 1881–1885 ..	56	*259*	*89*	51	*236*	*113*	46	185	108	45	*178*	*111*	45	191	110	44	168	101	46	191	109	53	*312*	*107*	49	249	106	52	254	111	60	262	105	53	259	106	53	267	107	54	193	107	50	229	107
1886–1890 ..	60	*292*	*100*	51	193	93	46	193	113	45	*176*	*109*	43	173	99	40	175	105	45	183	104	51	277	95	47	236	100	46	231	101	58	262	105	50	231	94	50	246	98	46	180	100	48	216	101
1891–1895 ..	65	361	123	53	236	113	47	185	108	45	*183*	*114*	45	178	102	45	206	124	47	198	113	52	312	107	50	272	115	49	264	115	60	264	106	51	264	108	52	274	110	48	226	124	50	236	110
1896–1900 ..	58	325	111	50	206	99	39	157	92	35	*137*	*85*	36	157	90	33	142	86	39	160	91	55	*310*	*107*	46	239	101	42	206	90	56	254	102	48	257	105	49	254	102	42	160	88	44	208	97
1901–1905 ..	63	305	104	53	203	98	42	168	98	36	*160*	*99*	40	191	110	39	178	107	42	180	102	51	*330*	*113*	49	213	90	46	231	101	61	274	110	52	259	106	52	262	105	49	188	103	47	221	103
1906–1910 ..	59	267	91	49	203	98	43	147	86	40	135	84	41	160	92	37	142	86	42	157	89	49	290	100	48	226	96	43	203	89	54	229	92	52	208	85	49	231	92	38	127	70	45	196	92
1911–1915 ..	52	234	80	43	180	87	40	164	96	38	157	98	37	168	97	34	149	90	38	164	93	44	205	70	41	214	91	40	216	94	50	205	82	51	238	97	45	215	86	38	189	105	42	190	89
35 years normal ..	**59**	**292**	—	**50**	**208**	—	**43**	**171**	—	**41**	**161**	—	**41**	**174**	—	**39**	**166**	—	**43**	**176**	—	**51**	**291**	—	**47**	**236**	—	**45**	**229**	—	**57**	**250**	—	**51**	**245**	—	**50**	**250**	—	**45**	**180**	—	**47**	**214**	—
1913	42	132	45	36	117	56	34	104	61	36	119	74	31	114	66	34	142	86	34	119	68	33	145	50	34	157	67	32	137	60	43	155	62	41	157	64	37	150	60	33	114	63	36	135	63
1914	55	254	87	42	175	84	36	157	92	36	109	68	40	168	97	35	140	84	38	150	85	44	239	82	42	241	102	46	272	119	52	211	84	57	287	117	48	249	100	46	226	125	43	201	93
1915	60	238	82	53	275	132	45	208	122	42	206	128	41	212	122	35	199	120	43	220	125	48	195	67	41	206	87	45	221	96	62	235	94	61	271	111	51	226	90	35	184	102	47	223	104
1916	52	182	62	48	238	114	40	169	99	40	141	88	37	146	84	33	146	88	40	168	96	46	233	80	39	182	77	32	215	94	49	179	72	47	185	76	43	199	80	34	177	98	42	184	86
1917	59	342	117	50	223	107	45	197	115	41	228	142	46	225	129	45	262	158	46	227	129	54	282	97	47	262	111	49	296	129	61	278	111	62	322	132	55	288	115	47	208	115	51	257	122
1918	69	417	143	59	296	142	54	249	146	51	256	159	55	298	171	49	307	185	54	281	160	63	366	126	61	375	159	58	385	168	66	299	120	66	336	137	63	352	141	54	262	146	59	317	148
1919	55	301	103	41	141	68	39	156	91	36	146	91	37	173	99	34	151	91	37	153	87	47	234	80	43	187	79	39	171	75	51	196	78	46	180	73	45	194	77	36	167	93	41	173	81

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Investigation having shown that in some districts the effects of changes in the list of stations were considerable, the earlier figures were revised in 1907 to make them comparable with the current ones. All values revised are shown in italic type.

NOTE.—Prior to the year 1914 the values were for periods of 13 weeks coinciding most nearly with the periods of three months July, August, September, etc. In the years 1880, 1886, 1890, 1896, 1902, 1908, 1913, the values for the fourth quarter refer to a period of 14 weeks. From 1914 the values refer to the period July 1st to September 30th.

TABLE II.—Mean Temperature in Degrees Absolute and Deviation from the Normal for the 35 years, 1881-1915.

YEARS.	0. Scot-land, N.		Eastern Districts. 1. Scot-land, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Districts 1-5.		Western Districts. 6. Scot-land, W.		7. England, N.W. and N. Wales.		8. S. Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Districts, 6-10.		11. English Channel.		Districts 1-10 combined.	
	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.
Lustra.* 1881-1885 ..	*285·1*	*0·0*	*285·7*	*0·0*	286·8	− 0·2	287·7	− 0·3	287·3	− 0·2	288·3	− 0·2	287·2	− 0·1	*286·1*	*− 0·1*	286·8	− 0·3	287·3	− 0·4	286·2	− 0·2	286·8	− 0·4	286·6	− 0·3	288·3	− 0·6	286·9	− 0·2
1886-1890 ..	*284·6*	*− 0·5*	285·5	− 0·2	286·5	− 0·5	287·6	− 0·4	287·1	− 0·4	288·1	− 0·4	286·9	− 0·4	285·8	− 0·4	286·7	− 0·4	287·3	− 0·4	286·2	− 0·2	287·0	− 0·2	286·6	− 0·3	288·4	− 0·5	286·8	− 0·3
1891-1895 ..	285·1	0·0	285·8	+ 0·1	286·8	− 0·2	287·8	− 0·2	287·3	− 0·2	288·4	− 0·1	287·2	− 0·1	286·2	0·0	287·2	+ 0·1	287·6	− 0·1	286·4	0·0	287·1	− 0·1	286·9	0·0	289·0	+ 0·1	287·1	0·0
1896-1900 ..	285·5	+ 0·4	286·2	+ 0·5	287·4	+ 0·4	288·6	+ 0·6	288·1	+ 0·6	289·3	+ 0·8	287·9	+ 0·6	286·6	+ 0·4	287·7	+ 0·6	288·5	+ 0·8	286·9	+ 0·5	287·9	+ 0·7	287·5	+ 0·6	289·9	+ 1·0	287·7	+ 0·6
1901-1905 ..	*285·1*	*0·0*	285·7	0·0	287·2	+ 0·2	288·3	+ 0·3	287·4	− 0·1	288·5	0·0	287·4	+ 0·1	286·2	0·0	287·2	+ 0·1	287·9	+ 0·2	286·3	− 0·1	287·3	+ 0·1	287·0	+ 0·1	289·1	+ 0·2	287·2	+ 0·1
1906-1910 ..	284·9	− 0·2	285·4	− 0·3	286·9	− 0·1	287·8	− 0·2	287·3	− 0·2	288·1	− 0·4	287·1	− 0·2	286·2	0·0	286·8	− 0·3	287·5	− 0·2	286·3	− 0·1	287·2	0·0	286·8	− 0·1	288·8	− 0·1	287·0	− 0·1
1911-1915 ..	285·3	+ 0·2	285·7	0·0	287 2	+ 0·2	288·3	+ 0·3	287·7	+ 0·2	288·5	0·0	287·5	+ 0·2	286·4	+ 0·2	287·3	+ 0·2	287·9	+ 0·2	286·4	0·0	287·4	+ 0·2	287·1	+ 0·2	289·0	+ 0·1	287·3	+ 0·2
35 years normal ..	**285·1**	—	**285·7**	—	**287·0**	—	**288·0**	—	**287·5**	—	**288·5**	—	**287·3**	—	**286·2**	—	**287·1**	—	**287·7**	—	**286·4**	—	**287·2**	—	**286·9**	—	**288·9**	—	**287·1**	—
1913	285·3	+ 0·2	285·8	+ 0·1	286·8	− 0·2	287·6	− 0·4	287·6	+ 0·1	288·2	− 0·3	287·2	− 0·1	286·3	+ 0·1	287·2	+ 0·1	288·1	+ 0·4	286·3	− 0·1	287·5	+ 0·3	287·1	+ 0·2	288·8	− 0·1	287·2	+ 0·1
1914	285·7	+ 0·6	286·0	+ 0·3	287·7	+ 0·7	288·7	+ 0·7	287·9	+ 0·4	288·8	+ 0·3	287·8	+ 0·5	286·8	+ 0·6	287·7	+ 0·6	288·0	+ 0·3	286·9	+ 0·5	287·8	+ 0·6	287·4	+ 0·5	289·2	+ 0·3	287·7	+ 0·6
1915	285·3	+ 0·2	285·7	0·0	287·0	0·0	287·9	− 0·1	287·1	− 0·4	288·0	− 0·5	287·2	− 0·1	286·3	+ 0·1	287·0	− 0·1	287·4	− 0·3	286·4	0·0	287·3	+ 0·1	286·9	0·0	288·6	− 0·3	287·0	− 0·1
1916	285·3	+ 0·2	285·8	+ 0·1	287·1	+ 0·1	287·7	− 0·3	287·7	+ 0·2	288·3	− 0·2	287·3	0·0	287·0	+ 0·8	287·5	+ 0·4	288·2	+ 0·5	287·1	+ 0·7	288·3	+ 1·1	287·6	+ 0·7	289·2	+ 0·3	287·5	+ 0·4
1917	286·1	+ 1·0	286·4	+ 0·7	287·9	+ 0·9	288·8	+ 0·8	288·3	+ 0·8	288·8	+ 0·3	288·0	+ 0·7	287·3	+ 1·1	288·0	+ 0·9	288·0	+ 0·3	287·2	+ 0·8	288·0	+ 0·8	287·7	+ 0·8	289·0	+ 0·1	287·9	+ 0·8
1918	284·3	− 0·8	285·0	− 0·7	287·1	+ 0·1	288·1	+ 0·1	287·6	+ 0·1	288·4	− 0·1	287·3	0·0	286·1	− 0·1	287·1	0·0	287·6	− 0·1	286·1	− 0·3	287·1	− 0·1	286·8	− 0·1	288·9	0·0	287·0	− 0·1
1919	284·7	− 0·4	285·3	− 0·4	286·8	− 0·2	287·5	− 0·5	287·3	− 0·2	288·2	− 0·3	287·0	− 0·3	285·9	− 0·3	286·8	− 0·3	287·7	0·0	286·2	− 0·2	287·5	+ 0·3	286·8	− 0·1	288·9	0·0	286·9	− 0·2

The estimates of mean temperature are made from the observed maximum and minimum readings by the rules as detailed in the Guide to the Weekly Weather Report.

TABLE III.—Bright Sunshine, in Thousand-hours, and Daily Means, with Percentages of the Normal for the 35 Years, 1881-1915.

YEARS.	0. Scot-land, N.			Eastern Districts. 1. Scot-land, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Districts 1-5.			Western Districts. 6. Scot-land, W.			7. England, N.W. and N. Wales.			8. S. Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts, 6-10.			11. English Channel.			Districts 1-10 combined.		
	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.
Lustra.* 1881-1885 ..	*·32*	3·5	*92*	*·41*	4·5	*98*	*·47*	5·1	*97*	·50	5·5	93	·46	5·0	94	·53	5·7	92	·47	5·2	95	·44	4·8	96	·44	4·8	92	*·51*	5·5	*95*	·36	4·0	93	·43	4·7	96	·44	4·8	96	·65	7·0	99	·46	5·0	96
1886-1890 ..	*·30*	3·3	*87*	*·41*	4·5	*97*	*·45*	4·8	*93*	·51	5·5	94	·46	5·0	94	51	5·6	90	·47	5·1	93	·43	4·7	94	·43	4·7	90	*·49*	5·3	*91*	·36	3·9	91	·44	4·8	98	·43	4·7	94	·64	6·9	98	·45	4·9	94
1891-1895 ..	*·31*	3·3	*87*	*·41*	4·5	*97*	*·47*	5·1	*98*	·51	5·6	95	·47	5·1	96	·54	5·9	95	·48	5·2	95	·44	4·8	96	·42	4·6	88	*·49*	5·4	*93*	·37	4·0	93	·41	4·4	90	·43	4·7	94	·64	7·0	98	·46	5·0	96
1896-1900 ..	*·39*	4·2	*110*	*·47*	5·1	*110*	*·51*	5·5	*106*	·60	6·5	111	·53	5·8	109	·65	7·0	113	·55	6·0	108	·45	4·9	98	·51	5·5	106	*·59*	6·4	*110*	·41	4·5	105	·48	5·2	106	·49	5·3	106	·72	7·8	110	·52	5·7	109
1901-1905 ..	·37	4·0	105	·42	4·5	98	*·51*	5·6	*107*	·58	6·3	108	·49	5·3	100	·58	6·3	102	·52	5·6	102	·47	5·2	104	·51	5·6	108	*·53*	5·8	*100*	·39	4·3	100	·44	4·8	98	·47	5·1	102	·63	6·9	97	·50	5·4	104
1906-1910 ..	·37	4·0	105	·42	4·5	98	·47	5·1	99	·54	5·8	100	·48	5·2	98	·57	6·2	104	·50	5·4	98	·46	5·0	100	·49	5·3	102	·50	5·9	102	·41	4·5	105	·46	5·0	102	·47	5·1	102	·63	6·9	97	·50	5·4	104
1911-1915 ..	·35	3·9	103	·40	4·4	96	·46	5·1	98	·53	5·9	100	·46	5·1	96	57	6·3	102	·49	5·4	98	·45	5·0	100	·50	5·5	106	·53	5·9	102	·41	4·6	107	·45	5·0	102	·47	5·2	104	·62	6·9	97	·48	5·3	102
35 years normal ..	**·34**	**3·8**	—	**·41**	**4·6**	—	**·47**	**5·2**	—	**·53**	**5·9**	—	**·48**	**5·3**	—	**·56**	**6·2**	—	**·50**	**5·5**	—	**·45**	**5·0**	—	**·47**	**5·2**	—	**·52**	**5·8**	—	**·39**	**4·3**	—	**·44**	**4·9**	—	**·45**	**5·0**	—	**·64**	**7·1**	—	**·47**	**5·2**	—
1913	·33	3·7	97	·36	4·0	86	·39	4·3	81	·42	4·6	77	·35	3·9	74	·44	4·8	77	·39	4·3	78	·46	5·0	100	·49	5·4	104	·49	5·4	93	·41	4·6	107	·44	4·9	100	·46	5·0	100	56	6·2	86	·43	4·7	89
1914	·37	4·1	108	·44	4·9	107	·52	5·8	112	·56	6·2	105	·50	5·6	106	·62	6·9	111	·53	5·9	107	·47	5·2	104	·54	6·0	115	·56	6·1	105	·43	4·8	112	·43	4·8	98	·49	5·4	108	·60	6·7	94	·51	5·7	109
1915	·33	3·6	95	·40	4·4	94	·49	5·3	101	·53	5·8	97	·48	5·2	98	·56	6·1	98	·49	5·4	98	46	5·0	100	49	5·3	102	·55	6·0	103	·37	4·0	93	·47	5·1	104	·47	5·1	102	·71	7·7	108	·48	5·2	100
1916	·29	3·2	83	·36	4·0	87	·42	4·7	90	·42	4·7	79	·42	4·7	89	50	5·5	88	·42	4·7	86	·41	4·6	93	·43	4·8	92	·50	5·6	97	·34	3·8	88	·41	4·6	95	·42	4·7	93	·63	7·0	98	·42	4·7	90
1917	·40	4·5	118	·40	4·5	98	·46	5·1	98	·55	6·1	103	·44	4·9	94	·53	5·9	95	·48	5·3	98	·44	4·9	98	·46	5·1	98	·46	5·1	87	·40	4·5	105	·41	4·6	95	·43	4·8	96	·58	6·4	90	·46	5·1	97
1918	·34	3·8	101	·41	4·6	101	·49	5·5	106	·54	6·0	101	·47	5·3	100	·57	6·3	101	·49	5·5	102	·42	4·7	94	·46	5·1	98	·51	5·7	98	·38	4·2	99	·46	5·1	105	·45	5·0	99	·66	7·3	102	·47	5·3	100
1919	·33	3·7	98	·50	5·6	122	·45	5·0	95	·49	5·4	92	·46	5·1	97	·52	5·8	93	·48	5·4	99	·54	6·0	120	·47	5·2	100	·56	6·2	107	·43	4·8	112	·50	5·6	115	·50	5·6	111	·63	7·0	98	·49	5·5	105

* The values for each year from 1878 (1881 for Sunshine) to 1919 are published in Appendix I. to the Weekly Weather Report for 1910.

Meteorological Office, South Kensington, London, S.W. 7.
31*st October*, 1919.

NAPIER SHAW,
Director.

(28216) Wt. 169/853/612 625 12/18 H.W.H. G. 17/37.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1919. FOURTH QUARTER (OCTOBER, NOVEMBER, DECEMBER).

Forty-second Year.
Vol. XXXVI. [*New Series.*] } Appendix I. 4th Quarter.

OCTOBER AND NOVEMBER VERY COLD AND DRY, DECEMBER MILD AND WET.

[*Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE OF THE FOURTH QUARTER FOR THE THIRTY-NINE YEARS, 1881-1919.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE NORMALS FOR THE 35 YEARS, 1881–1915.

YEARS.	0. Scotland, N.			Eastern Districts. 1. Scotland, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Districts 1-5.		
	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.
		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%
Lustra* 1881-1885 ..	68	*411*	*96*	54	*236*	*99*	55	185	97	59	*211*	*115*	55	218	106	52	226	93	55	216	101
1886-1890 ..	71	*422*	*98*	57	226	95	53	185	97	51	*155*	*85*	50	183	89	52	224	92	53	196	92
1891-1895 ..	67	442	103	53	224	94	54	183	96	55	*196*	*107*	53	211	102	54	267	110	54	216	101
1896-1900 ..	69	488	114	57	259	108	53	206	108	49	*150*	*82*	49	191	93	47	208	85	51	203	96
1901-1905 ..	69	*401*	*94*	57	213	89	48	188	99	47	*145*	*79*	47	168	82	47	198	81	49	183	86
1906-1910 ..	70	389	91	57	249	104	54	193	101	54	201	110	56	231	112	54	267	110	55	229	107
1911-1915 ..	67	440	103	59	268	112	56	199	104	57	221	121	53	240	116	53	315	129	56	249	117
35 years normal ..	**69**	**428**	—	**56**	**239**	—	**53**	**191**	—	**53**	**183**	—	**52**	**206**	—	**51**	**244**	—	**53**	**213**	—
1913	71	521	122	52	170	71	47	140	73	50	155	85	50	183	89	47	218	89	50	173	81
1914	64	437	102	60	290	121	61	224	117	62	267	146	51	287	139	58	363	149	59	287	135
1915	59	284	66	56	271	113	54	215	113	53	224	122	47	249	121	47	324	133	51	257	121
1916	71	522	122	63	321	134	58	213	112	55	214	117	56	234	113	55	332	136	57	263	124
1917	81	622	145	59	247	103	47	141	74	50	155	85	48	158	77	48	183	75	50	177	82
1918	68	432	101	58	197	82	54	161	84	58	168	92	57	168	82	58	171	70	57	173	82
1919	69	367	90	63	302	126	65	241	126	62	201	110	54	204	99	55	205	84	60	231	108

YEARS.	Western Districts. 6. Scotland, W.			7. England, N.W. and N. Wales.			8. S. Wales, and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts 6-10.			11. English Channel.			Districts 1-10 Combined.		
	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.
		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%
Lustra* 1881-1885 ..	58	*419*	*108*	56	279	99	62	348	100	64	300	102	61	300	94	60	329	101	67	315	101	58	273	101
1886-1890 ..	58	389	100	59	272	96	62	345	99	64	307	105	59	320	100	60	325	99	69	302	96	57	262	97
1891-1895 ..	59	404	104	58	297	105	59	371	106	64	287	98	58	335	104	60	338	103	64	312	100	57	277	103
1896-1900 ..	61	*391*	*101*	51	282	100	57	343	98	63	300	102	58	366	114	59	335	103	61	287	9	55	269	100
1901-1905 ..	60	*373*	*96*	53	262	93	53	279	80	66	279	95	57	262	82	58	292	89	64	269	8	54	239	89
1906-1910 ..	60	371	95	61	297	105	64	363	104	66	269	92	69	300	94	64	320	98	65	335	107	60	274	102
1911-1915 ..	60	374	96	57	296	105	60	391	112	62	309	106	66	359	112	61	346	106	65	370	118	58	297	110
35 years normal ..	**59**	**389**	—	**57**	**282**	—	**60**	**349**	—	**64**	**293**	—	**61**	**320**	—	**60**	**327**	—	**65**	**313**	—	**57**	**270**	—
1913	67	343	88	59	244	87	60	312	89	65	300	102	67	325	102	63	305	93	63	302	97	56	239	89
1914	56	363	93	55	318	113	60	404	116	58	300	102	60	378	118	58	353	108	61	381	122	59	320	119
1915	51	332	85	48	268	95	54	423	121	60	294	100	60	388	121	55	341	104	60	387	124	53	299	111
1916	74	435	112	66	320	113	63	409	117	76	375	128	76	460	144	71	400	122	71	374	120	64	332	123
1917	69	489	126	62	267	102	53	245	70	74	351	120	67	237	74	65	322	98	60	244	78	58	250	90
1918	70	477	123	60	294	104	67	297	85	69	333	114	68	353	110	67	351	107	66	270	86	62	262	97
1919	57	373	96	55	260	92	59	311	89	62	297	101	57	228	71	58	294	90	66	295	94	59	263	97

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Investigation having shown that in some districts the effects of changes in the list of stations were considerable, the earlier figures were revised in 1907 to make them comparable with the current ones. All values revised are shown in italic type.

NOTE.—Prior to the year 1914 the values were for periods of 13 weeks coinciding most nearly with the periods of three months October, November, December, etc. In the years 1880, 1886, 1890, 1896, 1902, 1908, 1913, the values for the fourth quarter refer to a period of 14 weeks. From 1914 the values refer to the period October 1st to December 31st.

214

TABLE II.—Mean Temperature in Degrees Absolute and Deviation from the Normal for the 35 years, 1881-1915.

Years.	0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Districts 1-5.		Western Districts. 6. Scotland, W.		7. England, N.W. and N. Wales.		8. S. Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Districts. 6-10.		11. English Channel.		Districts 1-10. Combined.	
	Mean.	Devn.	Mean.	Devn.	Mean.	Devn.	Mean.	Devn.	Mean.	Devn.	Mean.	Devn.	Mean.	Devn.	Mean.	Devn.	Mean.	Devn.	Mean.	Devn.	Mean.	Devn.	Mean.	Devn.	Mean.	Devn.	Mean.	Devn.	Mean.	Devn.
	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.
Lustra.* 1881-1885 ..	278·3	− 0·5	278·1	− 0·3	279·3	− 0·2	279·3	− 0·5	279·1	− 0·2	280·3	− 0·3	279·2	− 0·3	279·2	− 0·4	279·7	− 0·3	281·1	+ 0·2	279·6	− 0·4	280·6	− 0·1	280·1	− 0·1	282·5	− 0·4	279·7	− 0·2
1886-1890 ..	278·7	− 0·1	278·3	− 0·1	278·9	− 0·6	278·7	− 1·1	278·6	− 0·7	279·7	− 0·9	278·9	− 0·6	279·3	− 0·3	279·4	− 0·6	280·3	− 0·6	279·8	− 0·2	280·5	− 0·2	279·9	− 0·3	282·3	− 0·6	279·4	− 0·5
1891-1895 ..	278·5	− 0·3	278·0	− 0·4	279·1	− 0·4	279·5	− 0·3	279·1	− 0·2	280·6	0·0	279·2	− 0·3	279·4	− 0·2	279·9	− 0·1	280·9	0·0	279·6	− 0·4	280·5	− 0·2	280·1	− 0·1	282·9	0·0	279·7	− 0·2
1896-1900 ..	279·2	+ 0·4	278·9	+ 0·5	280·1	+ 0·6	280·2	+ 0·4	279·7	+ 0·4	281·3	+ 0·7	280·1	+ 0·6	280·2	+ 0·6	280·7	+ 0·7	281·4	+ 0·5	280·4	+ 0·4	281·4	+ 0·7	280·8	+ 0·6	283·6	+ 0·7	280·4	+ 0·5
1901-1905 ..	278·8	0·0	278·4	0·0	279·3	− 0·2	279·5	− 0·3	278·9	− 0·4	280·2	− 0·4	279·3	− 0·2	279·6	0·0	279·8	− 0·2	280·5	− 0·4	280·1	+ 0·1	280·8	+ 0·1	280·1	− 0·1	282·7	− 0·2	279·7	− 0·2
1906-1910 ..	279·2	+ 0·4	278·9	+ 0·5	279·9	+ 0·4	280·6	+ 0·8	279·9	+ 0·6	281·1	+ 0·5	280·1	+ 0·6	279·8	+ 0·2	280·3	+ 0·3	281·2	+ 0·3	280·5	+ 0·5	281·1	+ 0·4	280·6	+ 0·4	283·3	+ 0·4	280·4	+ 0·5
1911-1915 ..	278·9	+ 0·1	278·4	0·0	279·8	+ 0·3	280·5	+ 0·7	279·8	+ 0·5	281·1	+ 0·5	279·9	+ 0·4	279·7	+ 0·1	280·3	+ 0·3	281·2	+ 0·3	280·3	+ 0·3	280·9	+ 0·2	280·4	+ 0·2	283·1	+ 0·2	280·2	+ 0 3
35 years normal ..	**278·8**	—	**278·4**	—	**279·5**	—	**279·8**	—	**279·3**	—	**280·6**	—	**279·5**	—	**279·6**	—	**280·0**	—	**280·9**	—	**280·0**	—	**280·7**	—	**280·2**	—	**282·9**	—	**279·9**	—
1913	280·1	+ 1·3	279·7	+ 1·3	280·7	+ 1·2	281·4	+ 1·6	280·8	+ 1·5	282·1	+ 1·5	280·9	+ 1·4	280·8	+ 1·2	281·5	+ 1·5	282·1	+ 1·2	281·3	+ 1·3	281·6	+ 0·9	281·4	+ 1·2	283·8	+ 0·9	281·2	+ 1·3
1914	279·0	+ 0·2	278·6	+ 0·2	280·2	+ 0·7	280·7	+ 0·9	280·0	+ 0·7	281·2	+ 0·6	280·1	+ 0·6	279·8	+ 0·2	280·3	+ 0·3	281·1	+ 0·2	280·1	+ 0·1	280·7	0·0	280·4	+ 0·2	283·0	+ 0·1	280·3	+ 0·4
1915	277·7	− 1·1	277·1	− 1·3	278·6	− 0·9	279·8	− 0·2	278·6	− 0·7	280·1	− 0·5	278·8	− 0·7	278·3	− 1·3	278·8	− 1·2	280·1	− 0·8	279·4	− 0·6	280·1	− 0·6	279·3	− 0·9	282·3	− 0·6	279·1	− 0·8
1916	279·2	+ 0·4	278·4	0·0	279·5	0·0	279·6	− 0·2	279·1	− 0·2	280·5	− 0·1	279·5	0·0	279·7	+ 0·1	280·0	0·0	280·7	− 0·2	280·1	+ 0·1	280·7	0·0	280·2	0·0	282·6	− 0·3	279·9	0·0
1917	278·1	− 0·7	277·8	− 0·6	279·0	− 0·5	278·9	− 0·9	278·8	− 0·5	279·6	− 1·0	278·8	− 0·7	279·0	− 0·6	279·6	− 0·4	280·0	− 0·9	279·7	− 0·3	280·3	− 0·4	279·7	− 0·5	281·9	− 1·0	279·3	− 0·6
1918	279·0	+ 0·2	278·5	+ 0·1	279·9	+ 0·4	280·4	+ 0·6	280·0	+ 0·7	281·3	+ 0·7	280·0	+ 0·5	279·8	+ 0·2	280·5	+ 0·5	281·4	+ 0·5	280·5	+ 0 5	281·2	+ 0·5	280·7	+ 0·5	283·2	+ 0·3	280·4	+ 0·5
1919	277·5	− 1·3	277·0	− 1·4	278·0	− 1·5	278·3	− 1·5	278·2	− 1·1	279·1	− 1·5	278·1	− 1·4	278·4	− 1·2	278·9	− 1·1	279·6	− 1·3	279·4	− 0·6	279·9	− 0·8	279·2	− 1·0	281·8	− 1·1	278·7	− 1·2

The estimates of mean temperature are made from the observed maximum and minimum readings by the rules detailed in the Guide to the Weekly Weather Report.

TABLE III.—Bright Sunshine, in Thousand-hours, and Daily Means, with Percentages of the Normal for the 35 Years, 1881-1915.

Years.	0. Scotland, N.			Eastern Districts. 1. Scotland, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Districts 1-5.			Western Districts. 6. Scotland, W.			7. England, N.W. and N. Wales.			8. S. Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts. 6-10.			11. English Channel.			Districts 1-10. Combined.		
	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily mean.	P.c. of normal	Th.-hrs.	Daily mean	P.c. of normal	Th.-hrs.	Daily mean.	P.c. of normal.	Th.-hrs.	Daily mean.	P.c. of normal.	Th.-hrs.	Daily mean.	P.c. of normal.	Th.-hrs.	Daily mean.	P.c. of normal.	Th.-hrs.	Daily mean.	P.c. of normal.
			%			%			%			%			%			%			%			%			%			%			%			%			%			%			%
Lustra.* 1881-1885 ..	·14	1·5	100	·18	2·0	108	·18	1·9	93	·19	2·1	90	·18	1·9	98	·19	2·1	87	·18	2·0	96	·16	1·8	100	·15	1·6	87	·19	2·1	91	·18	2·0	90	·21	2·3	99	·18	1·9	90	·23	2·5	85	·18	2·0	95
1886-1890 ..	·12	1·3	84	·15	1·6	87	·19	2·1	100	·21	2·3	102	·18	2·0	101	·20	2·2	92	·19	2·1	98	·15	1·7	96	·15	1·7	89	·20	2·2	97	·17	1·8	87	·20	2·2	95	·17	1·9	90	·27	2·9	103	·18	2·9	95
1891-1895 ..	·13	1·4	90	·18	2·0	108	·20	2·1	103	·20	2·2	97	·19	2·1	106	·22	2·4	100	·20	2·2	105	·18	1·9	110	·16	1·8	97	·22	2·4	104	·21	2·2	108	·23	2·6	111	·20	2·2	104	·27	2 9	103	·20	2·2	105
1896-1900 ..	·14	1·1	99	·16	1·8	95	·18	2·0	97	·23	2·5	110	·19	2·0	103	·24	2·6	108	·20	2·2	105	·16	1·8	100	·18	2·0	108	·22	2·4	104	·19	2·0	98	·23	2·5	110	·20	2·1	100	·26	2·8	99	·20	2·2	105
1901-1905 ..	·14	1·5	97	·17	1·9	102	·19	2·1	103	·21	2·3	100	·17	1·8	93	·20	2·2	92	·19	2·1	101	·16	1·8	101	·18	2·0	108	·20	2·2	97	·18	2·0	94	·20	2·2	95	·18	2·0	95	·24	2·6	93	·19	2·1	99
1906-1910 ..	·14	1·6	103	·19	2·0	111	·20	2·1	103	·21	2·3	100	·18	2·0	101	·23	2·5	104	·20	2·2	105	·16	1·7	99	·20	2·2	116	·22	2·4	107	·19	2·1	102	·20	2·2	97	·19	2·1	100	·26	2·9	102	·20	2·2	105
1911-1915 ..	·14	1·5	100	·18	1·9	100	·19	2·0	95	·21	2·2	96	·17	1·9	95	·22	2·4	100	·19	2·1	100	·16	1·7	99	·19	2·0	108	·22	2·4	104	·18	1·9	95	·22	2·3	100	·19	2·1	100	·25	2·7	96	·19	2·1	100
35 years normal ..	**·14**	**1·5**	—	**·17**	**1·9**	—	**·19**	**2·1**	—	**·21**	**2·3**	—	**·18**	**2·0**	—	**·21**	**2·4**	—	**·19**	**2·1**	—	**·16**	**1·8**	—	**·17**	**1·9**	—	**·21**	**2·3**	—	**·19**	**2·0**	—	**·21**	**2·3**	—	**·19**	**2·1**	—	**·25**	**2·8**	—	**·19**	**2·1**	—
1913	·15	1·5	110	·21	2·1	121	·23	2·3	119	·27	2·7	127	·20	2·0	111	·26	2·6	108	·23	2·4	120	·18	1·8	110	·20	2·0	113	·23	2·3	110	·19	2·0	105	·21	2·1	97	·20	2·1	100	·27	2·8	107	·22	2·2	114
1914	·12	1·3	87	·16	1·9	100	·17	1·9	90	·18	2·0	87	·16	1·8	90	·21	2·3	96	·18	2·0	93	·14	1·6	89	·17	1·9	100	·21	2·4	104	·17	1·9	95	·22	2·5	109	·18	2·1	100	·24	2·7	96	·18	2·0	96
1915	·16	1·8	121	·17	1·9	102	·17	1·9	88	·18	2·0	86	·14	1·6	81	·19	2·1	87	·17	1·9	89	·16	1·8	103	·20	2·2	116	·22	2·4	104	·18	2·0	100	·22	2·4	104	·20	2·2	104	·23	2·5	89	·18	2·0	97
1916	·10	1·1	73	·15	1·7	88	·16	1·8	86	·18	2·0	86	·16	1·8	89	·18	2·0	84	·16	1·8	86	·13	1·4	81	·15	1·7	88	·18	2·0	85	·14	1·5	73	·15	1·7	72	·15	1·7	80	·23	2·6	93	·15	1·7	83
1917	·10	1·1	76	·20	2·2	115	·23	2·6	125	·27	3·0	129	·21	2·3	117	·25	2·8	121	·23	2·6	121	·16	1·8	99	·16	1·8	92	·21	2·3	99	·15	1·7	84	·18	2·0	85	·17	1·9	92	·21	2·3	81	·20	2·2	106
1918	·13	1·5	103	·18	2·0	105	·16	1·8	88	·17	1·9	81	·16	1·8	91	·19	2·1	87	·17	1·9	90	·15	1·7	95	·17	1·9	100	·21	2 3	99	·19	2·1	103	·19	2·1	91	·18	2·0	97	·24	2·7	96	·18	2·0	93
1819	·13	1·5	103	·19	2·1	109	·21	2·3	109	·22	2·4	103	·20	2·2	113	·22	2·5	106	·21	2·3	108	·20	2·2	124	·19	2·1	109	·25	2·8	119	·21	2·3	115	·25	2·8	118	·22	2·4	117	·26	2·9	103	·22	2·4	112

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Meteorological Office, South Kensington, London, S.W. 7.
13*th February*, 1920.

NAPIER SHAW,
Director.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1919. VALUES FOR THE WHOLE YEAR.

Forty-second Year. VOL. XXXVI. [*New Series.*] } APPENDIX I. YEAR. [*Price 4d.*

A COOL YEAR; DRY IN THE WEST, BUT WET IN THE EAST.

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-NINE YEARS, 1881-1919.

TABLE I.—RAINFALL.—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE NORMALS FOR THE 35 YEARS, 1881–1915.

Eastern Districts.

YEARS.	0. SCOTLAND, N. Days.	Amount.	Per cent. of normal.	1. SCOTLAND, E. Days.	Amount.	Per cent. of normal.	2. ENGLAND, N.E. Days.	Amount.	Per cent. of normal.	3. ENGLAND, E. Days.	Amount.	Per cent. of normal.	4. MIDLAND COUNTIES. Days.	Amount.	Per cent. of normal.	5. ENGLAND, S.E. Days.	Amount.	Per cent. of normal.	DISTRICTS 1-5. Days.	Amount.	Per cent. of normal.
		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%
LUSTRA.* 1881-1885 ..	241	*1250*	*95*	198	*846*	*107*	188	648	103	187	*660*	*109*	186	737	109	177	696	99	187	716	105
1886-1890 ..	251	*1278*	*97*	203	737	93	187	632	100	184	*574*	*95*	176	650	96	177	681	97	185	655	96
1891-1895 ..	244	1339	101	196	772	98	190	630	100	184	*610*	*101*	178	640	94	174	701	99	184	671	98
1896-1900 ..	248	1417	107	209	810	103	183	635	101	173	*559*	*92*	172	653	96	161	643	91	180	660	97
1901-1905 ..	255	*1356*	*103*	213	759	96	177	597	95	170	*569*	*94*	175	660	97	174	699	99	182	658	97
1906-1910 ..	257	1285	97	210	820	104	192	620	98	186	617	102	189	699	103	182	726	103	192	696	102
1911-1915 ..	237	1285	97	201	791	100	187	650	103	184	651	107	174	717	106	171	794	113	183	721	106
35 years normal ..	**248**	**1316**	—	**204**	**791**	—	**186**	**630**	—	**181**	**606**	—	**179**	**679**	—	**174**	**706**	—	**185**	**682**	—
1913	236	1311	100	195	681	86	180	559	89	176	536	89	178	671	99	169	688	98	180	627	92
1914	240	1334	101	197	815	103	183	625	99	183	643	106	177	721	106	174	833	118	183	729	107
1915	231	1074	81	199	860	109	186	679	106	185	736	121	164	753	111	159	904	128	178	786	115
1916	255	1440	109	226	1065	135	199	718	114	194	713	118	194	752	111	187	860	122	200	822	121
1917	257	1405	107	198	766	97	179	603	96	174	628	104	173	673	99	168	737	104	179	682	100
1918	250	1383	105	208	777	98	191	637	101	185	675	111	189	734	108	183	751	106	193	715	105
1919	237	1166	89	200	767	97	199	681	108	186	650	107	180	735	108	177	728	103	189	712	104

Western Districts.

YEARS.	6. SCOTLAND, W. Days.	Amount.	Per cent. of normal.	7. ENGLAND, N.W. AND N. WALES. Days.	Amount.	Per cent. of normal.	8. S. WALES AND ENGLAND, S.W. Days.	Amount.	Per cent. of normal.	9. IRELAND, N. Days.	Amount.	Per cent. of normal.	10. IRELAND, S. Days.	Amount.	Per cent. of normal.	DISTRICTS 6-10. Days.	Amount.	Per cent. of normal.	11. ENGLISH CHANNEL. Days.	Amount.	Per cent. of normal.	DISTRICTS 1-10 COMBINED. Days.	Amount.	Per cent. of normal.
		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%
LUSTRA.* 1881-1885 ..	216	*1285*	*106*	198	930	104	211	1034	104	236	980	101	217	1059	104	216	1057	104	222	859	102	202	886	104
1886-1890 ..	207	1163	96	197	846	94	200	950	95	223	963	99	204	983	97	206	980	96	217	813	97	196	818	96
1891-1895 ..	206	1156	95	196	892	91	191	975	98	225	919	95	200	993	98	204	988	97	200	838	100	194	831	98
1896-1900 ..	225	*1245*	*103*	198	917	102	194	996	100	235	1006	104	206	1092	107	212	1049	103	204	800	95	196	856	101
1901-1905 ..	218	*1278*	*105*	202	838	94	194	950	95	247	996	102	215	991	97	215	1008	99	219	836	102	199	833	98
1906-1910 ..	217	1229	102	213	953	106	208	1006	101	244	988	102	240	963	94	224	1029	101	201	800	95	208	864	102
1911-1915 ..	208	1107	92	193	904	101	198	1083	108	222	942	97	229	1081	106	210	1023	100	200	936	111	197	872	102
35 years normal ..	**214**	**1209**	—	**200**	**897**	—	**199**	**999**	—	**233**	**971**	—	**216**	**1023**	—	**212**	**1019**	—	**209**	**840**	—	**199**	**851**	—
1913	217	1095	89	203	876	98	204	1008	101	235	1001	103	237	1125	110	219	1021	100	203	818	97	200	823	97
1914	208	1110	90	192	919	103	200	1148	115	221	960	99	228	1125	110	210	1052	103	199	1003	119	197	892	105
1915	191	1002	82	174	846	94	189	1102	111	221	892	92	221	1074	105	199	983	96	188	949	113	189	885	106
1916	236	1208	100	210	940	105	204	1090	109	248	1038	107	251	1148	113	230	1085	106	212	940	112	215	954	112
1917	216	1165	97	187	849	95	183	900	90	240	994	102	225	905	89	210	963	95	194	779	93	195	823	97
1918	231	1320	109	203	1002	112	206	1035	104	237	994	102	235	1122	110	222	1095	108	201	773	92	209	905	106
1919	203	1076	88	192	807	90	193	974	97	227	906	93	213	844	83	205	922	90	206	987	118	198	818	97

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Investigation having shown that in some districts the effects of changes in the lists of stations were considerable, the earlier figures were revised in 1907 to make them comparable with the current ones. All values revised are shown in italic type.

NOTE.—The values for years prior to 1914 are for the periods of 52 weeks coinciding most nearly with the Calendar Year. From 1914 the values refer to the year January 1st to December 31st.

(29391) Wt. 24—S.O.P.561/P25 625 12/19 H.W., H. G 17/37

TABLE II.—Mean Temperature in Degrees Absolute and Deviation from the Normal for the 35 years, 1881-1915.

YEARS.		0. Scot-land, N.		Eastern Districts. 1. Scot-land, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Districts, 1-5.		Western Districts. 6. Scot-land, W.		7. England, N.W. and N. Wales.		8. S. Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Districts, 6-10.		11. English Channel.		Districts 1-10 com-bined.	
		Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.	Mean a.	Devn. a.
Lustra.*	1881-1885 ..	*280·4*	*- 0·1*	*280·6*	*- 0·1*	281·5	- 0·1	282·1	- 0·1	281·9	0·0	282·8	0·0	281·8	0·0	*281·4*	*- 0·2*	281·9	- 0·2	282·7	0·0	281·8	- 0·1	282·6	- 0·2	282·1	- 0·1	283·8	- 0·3	281·9	- 0·1
	1886-1890 ..	*280·3*	*- 0·2*	280·6	- 0·1	281·1	- 0·5	281·4	- 0·8	281·4	- 0·5	282·2	- 0·6	281·3	- 0·5	281·3	- 0·3	281·6	- 0·5	282·3	- 0·4	281·7	- 0·2	282·5	- 0·3	281·9	- 0·3	283·6	- 0·5	281·6	- 0·4
	1891-1895 ..	280·4	- 0·1	280·4	- 0·3	281·3	- 0·3	281·8	- 0·4	281·7	- 0·2	282·7	- 0·1	281·6	- 0·2	281·4	- 0·2	282·0	- 0·1	282·6	- 0·1	281·8	- 0·1	282·6	- 0·2	282·1	- 0·1	284·1	0·0	281·9	- 0·1
	1896-1900 ..	280·8	+ 0.3	281·0	+ 0·3	281·9	+ 0·3	282·5	+ 0·3	282·3	+ 0·4	283·4	+ 0·6	282·2	+ 0·4	281·9	+ 0·3	282·6	+ 0·5	283·3	+ 0·6	282·3	+ 0·4	283·2	+ 0·4	282·7	+ 0·5	284·8	+ 0·7	282·4	+ 0·4
	1901-1905 ..	*280·6*	*+ 0·1*	280·6	- 0·1	281·7	+ 0·1	282·3	+ 0·1	281·8	- 0·1	282·7	- 0·1	281·8	0·0	281·5	- 0·1	282.0	- 0·1	282·7	0·0	281·9	0·0	282·8	0·0	282·2	0·0	284·1	0·0	282·0	0·0
	1906-1910 ..	280·5	0·0	280·6	- 0·1	281·7	+ 0·1	282·3	+ 0·1	281·9	0·0	282·6	- 0·2	281·8	0·0	281·6	0·0	281·9	- 0·2	282·5	- 0·2	281·9	0·0	282·9	+ 0·1	282·1	- 0·1	284·1	0·0	282·0	0·0
	1911-1915 ..	280·8	+ 0·3	280·8	+ 0·1	282 0	+ 0·4	282·8	+ 0·6	282·4	+ 0·5	283·2	+ 0·4	282·2	+ 0·4	281·8	+ 0·2	282·4	+ 0·3	283·0	+ 0·3	282·1	+ 0·2	282·9	+ 0·1	282·4	+ 0·2	284·4	+ 0·3	282·3	+ 0·3
35 years normal	..	**280·5**	—	**280·7**	—	**281·6**	—	**282·2**	—	**281·9**	—	**282·8**	—	**281·8**	—	**281·6**	—	**282·1**	—	**282·7**	—	**281·9**	—	**282·8**	—	**282·2**	—	**284·1**	—	**282·0**	—
1913	..	281·1	+ 0·6	281·0	+ 0·3	282·1	+ 0·5	282·9	+ 0·7	282·4	+ 0·5	283·4	+ 0·6	282·3	+ 0·5	281·9	+ 0·3	282·6	+ 0·5	283·2	+ 0·5	282·1	+ 0·2	282·8	0·0	282·5	+ 0·3	284·4	+ 0·3	282·4	+ 0·4
1914	..	281·1	+ 0·6	281·1	+ 0·4	282·6	+ 1·0	283·1	+ 0·9	282·7	+ 0·8	283·4	+ 0·6	282·6	+ 0·8	282·1	+ 0·5	282·7	+ 0·6	283·2	+ 0·5	282·3	+ 0·4	283·1	+ 0·3	282·7	+ 0·5	284·5	+ 0·4	282·6	+ 0·6
1915	..	280·3	- 0·2	280·1	- 0·6	281·4	- 0·2	282·2	0·0	281·8	- 0·1	282·6	- 0·2	281·6	- 0·2	281·1	- 0·5	281·7	- 0·4	282·4	- 0·3	281·6	- 0·3	282·5	- 0·3	281·9	- 0·3	283·9	- 0·2	281·8	- 0·2
1916	..	280·7	+ 0·2	280·4	- 0·3	281·8	+ 0·2	282·3	+ 0·1	281·9	0·0	282·8	0·0	281·8	0·0	281·7	+ 0·1	282·2	+ 0·1	282·8	+ 0·1	281·9	0·0	282·8	0·0	282·3	+ 0·1	284·1	0·0	282·1	+ 0·1
1917	..	280·3	- 0.2	280·1	- 0·6	281·2	- 0·4	281·7	- 0·5	281·5	- 0·4	282·1	- 0·7	281·3	- 0·5	281·2	- 0·4	281·6	- 0·5	281·9	- 0·8	281·5	- 0·4	282·3	- 0·5	281·7	- 0·5	283·4	- 0·7	281·5	- 0·5
1918	..	280·6	+ 0·1	280·6	- 0·1	282·1	+ 0·5	282·5	+ 0·3	282·5	+ 0·6	223·1	+ 0·3	282·2	+ 0·4	281·8	+ 0·2	282·5	+ 0·4	283·1	+ 0·4	282·3	+ 0·4	283·2	+ 0·4	282·6	+ 0·4	284·4	+ 0·3	282·4	+ 0·4
1919	..	279·9	- 0·6	279·9	- 0·8	281·1	- 0·5	281·5	- 0·7	281·4	- 0·5	282·2	- 0·6	281·2	- 0·6	280·9	- 0·7	281·5	- 0·6	282·2	- 0·5	281·5	- 0·4	282·4	- 0·4	281·7	- 0·5	283·7	- 0·4	281·5	- 0·5

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the Guide to the Tables of the Weekly Weather Report.

TABLE III.—Bright Sunshine, in Thousand-hours, and Daily Means, with Percentages of the Normal for the 35 Years. 1881-1915.

YEARS.		0. Scot-land, N.			Eastern Districts. 1. Scot-land, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Districts, 1-5.			Western Districts. 6. Scot-land, W.			7. England, N.W. and N. Wales.			8. S. Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts, 6-10.			11. English Channel.			Districts 1-10 com-bined.		
		Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.	Th.-hrs.	Daily Mean.	P.c. of normal.
Lustra.*	1881-1885 ..	*1·08*	3·0	% 97	*1·33*	3·6	% 100	*1·41*	3·8	% 97	1·54	4·2	% 97	1·39	3·8	% 99	*1·54*	4·2	% 95	1·44	3·9	% 97	1·33	3·6	% 98	1·32	3·6	% 92	*1·51*	4·1	% 96	1·28	3·5	% 98	1·45	4·0	% 101	1·37	3·8	% 98	1·89	5·2	% 102	1·41	3·8	% 97
	1886-1890 ..	*0·99*	2·7	*89*	*1·28*	3·5	*97*	*1·35*	3·7	*95*	1·48	4·1	94	1·32	3·6	94	1·45	4·0	90	1·38	3·8	93	1·32	3·6	97	1·29	3·5	90	*1·48*	4·0	*94*	1·20	3·3	94	1·43	3·9	99	1·34	3·7	95	1.84	5·0	98	1·36	3·7	94
	1891-1895 ..	*1·15*	3·1	*103*	*1·40*	3·9	*106*	*1·52*	4·2	*108*	1·59	4·4	101	1·49	4·1	106	1·70	4·6	105	1·54	4·2	104	1·42	3·9	104	*1·38*	3·8	*97*	*1·64*	4·5	*104*	1·33	3·6	104	1·47	4·0	102	1·45	4·0	103	2·02	5·5	108	1·50	4·1	103
	1896-1900 ..	*1·17*	3·2	*106*	*1·35*	3·7	*102*	*1·44*	3·9	*100*	1·64	4·5	104	1·46	4·0	104	1·71	4·7	106	1·52	4·2	103	1·34	3·7	99	1·48	4·0	103	*1·65*	4·5	*105*	1·31	3·6	102	1·49	4·1	103	1·45	4·0	103	1·94	5·3	104	1·49	4·0	103
	1901-1905 ..	1·15	3·1	103	1·28	3·5	96	*1·49*	4·1	*105*	1·63	4·4	103	1·37	3·7	97	*1·60*	4·4	*99*	1·47	4·0	100	1·38	3·8	101	1·49	4·0	103	*1·52*	4·2	*97*	1·29	3·5	101	1·40	3·8	97	1·42	3·9	101	1·80	4·9	96	1·45	4·0	100
	1906-1910 ..	1·14	3·1	103	1·34	3·7	101	1·45	4·0	103	1·61	4·4	102	1·43	3·9	101	1·70	4·7	105	1·51	4·1	102	1·36	3·7	100	1·47	4·0	103	1·62	4·4	103	1·29	3·5	101	1·42	3·9	99	1·43	3·9	101	1·87	5·1	100	1·47	3·9	101
	1911-1915 ..	1·11	3·0	100	1·29	3·5	97	1·40	3·8	97	1·57	4·3	100	1·36	3·7	97	1·65	4·6	104	1·45	4·0	100	1·34	3·7	100	1·45	4·0	103	1·54	4·2	98	1·28	3·5	100	1·42	3·9	98	1·41	3·9	100	1·76	4·9	96	1·43	3·9	98
35 years normal	..	**1·11**	**3·0**	—	**1·32**	**3·6**	—	**1·44**	**3·9**	—	**1·58**	**4·3**	—	**1·40**	**3·8**	—	**1·62**	**4·4**	—	**1·47**	**4·0**	—	**1·36**	**3·7**	—	**1·41**	**3·9**	—	**1·57**	**4·3**	—	**1·28**	**3·5**	—	**1·44**	**4·0**	—	**1·41**	**3·9**	—	**1·87**	**5·1**	—	**1·44**	**4·0**	—
1913	..	1·02	2·8	91	1·22	3·3	91	1·29	3·5	90	1·43	3·9	91	1·19	3·2	85	1·47	4·0	91	1·32	3·6	91	1·22	3·3	89	1·32	3·7	95	1·42	3·9	90	1·20	3·3	94	1·31	3·6	91	1·29	3·5	92	1·63	4·5	88	1·31	3·6	92
1914	..	1·08	3·0	100	1·38	3·8	106	1·52	4·2	108	1·68	4·6	107	1·46	4·1	108	1·80	4·9	111	1·57	4·3	107	1·31	3·7	100	1·49	4·1	105	1·62	4·5	105	1·27	3·5	100	1·45	4·0	100	1·43	4·0	103	1·78	4·9	96	1·50	4·2	105
1915	..	1·16	3·2	105	1·34	3·7	101	1·48	4·0	103	1·58	4·3	98	1·42	3·9	100	1·59	4·4	98	1·48	4·0	100	1·47	4·0	109	1·57	4·3	110	1·56	4·3	100	1·31	3·6	103	1·46	4·0	102	1·48	4·1	105	1·77	4·9	96	1·48	4·0	102
1916	..	0·91	2·5	84	1·11	3·1	85	1·21	3·4	86	1·29	3·6	83	1·19	3·3	86	1·45	4·0	89	1·24	3·5	86	1·25	3·5	94	1·23	3·5	90	1·43	4·1	96	1·14	3·1	89	1·30	3·6	92	1·28	3·6	92	1·74	4·8	94	1·26	3·6	89
1917	..	1·11	3·1	101	1·32	3·6	100	1·38	3·9	98	1·58	4·4	102	1·31	3·7	95	1·60	4·4	100	1·45	4·0	99	1·29	3·6	96	1·35	3·8	98	1·53	4·2	99	1·20	3·3	95	1·33	3·7	93	1·34	3·7	96	1·77	4·9	96	1·40	3·9	98
1918	..	1·06	3·0	98	1·26	3·5	97	1·39	3·9	98	1·55	4·3	99	1·35	3·8	98	1·63	4·5	101	1·44	4·0	99	1·31	3·6	98	1·43	3·9	102	1·60	4·5	104	1·29	3·6	102	1·46	4·1	103	1·42	3·9	102	1·95	5·4	105	1·43	4·0	100
1919	..	1·11	3·1	101	1·39	3·8	105	1·37	3·8	96	1·50	4·2	96	1·38	3·8	100	1·53	4·3	96	1·44	4·0	98	1·46	4·1	109	1·42	3·9	101	1·62	4·2	99	1·36	3·8	107	1·48	4·1	104	1·46	4·1	105	1·77	4·9	96	1·45	4·0	102

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Meteorological Office, South Kensington, London, S.W. 7.
23rd April, 1920.

NAPIER SHAW,
Director.

WEEKLY WEATHER REPORT, 1919. APPENDIX II.

[*Price* 1*s.*

TABLE I.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF **RAIN-DAYS** IN EACH DISTRICT DURING THE YEAR 1919.

1919.		0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts		11. English Channel		Means for Districts 1-10 combined.	
Weeks.																													
No. of Week.	Limiting Dates of each Week.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.
	NUMBERS OF RAIN-DAYS—1919.																												
1	**1919.** Dec. 29-Jan. 4	5	5	6	6	7	7	6	6	6	6	6	6	6	6	6	6	7	7	6	6	7	7	6	6	7	7	6	6	7	7
2	Jan. 5-11 -	5	10	5	11	5	12	5	11	5	11	7	13	5	11	6	12	6	13	7	13	6	13	6	12	6	13	6	12	5	12
3	12-18 -	5	15	4	15	4	16	5	16	5	16	5	18	5	16	6	18	6	19	6	19	6	19	6	18	6	19	7	19	6	18
4	Jan. 19-25 -	4	19	6	21	5	21	4	20	4	20	4	22	5	21	6	24	5	24	4	23	6	25	6	24	5	24	4	23	5	23
5	Jan. 26-Feb. 1	3	22	4	25	6	27	6	26	5	25	5	27	5	26	2	26	3	27	4	27	3	28	3	27	3	27	5	28	4	27
6	Feb. 2-8 -	3	25	2	27	3	30	2	28	2	27	3	30	2	28	2	28	2	29	3	30	3	31	4	31	3	30	5	33	2	29
7	9-15 -	2	27	2	29	2	32	2	30	2	29	2	32	2	30	2	30	2	31	3	33	2	33	3	34	2	32	3	36	2	31
8	16-22 -	5	32	5	34	6	38	7	37	6	35	7	39	6	36	4	34	6	37	7	40	5	38	5	39	5	37	6	42	6	37
9	Feb. 23-Mar. 1	4	36	3	37	4	42	3	40	2	37	3	42	3	39	2	36	2	39	3	43	3	41	2	41	3	40	6	48	3	40
	Winter Totals	58		55		61		63		60		65		61		61		61		67		65		64		64		72		63	
10	Mar. 2-8 -	5	41	2	39	4	46	6	46	6	43	7	49	5	44	5	41	5	44	7	50	5	46	5	46	5	45	6	54	5	45
11	9-15 -	5	46	5	44	6	52	5	51	4	47	5	54	5	49	3	44	4	48	5	55	4	50	6	52	5	50	6	60	5	50
12	16-22 -	5	51	4	48	4	56	5	56	4	51	5	59	5	54	4	48	4	52	4	59	5	55	6	58	5	55	5	65	5	55
13	Mar. 23-29 -	5	56	4	52	3	59	2	58	3	54	3	62	3	57	3	51	2	54	4	63	5	60	4	62	3	58	6	71	3	58
14	Mar. 30-Apl. 5	6	62	4	56	2	61	1	59	2	56	1	63	2	59	4	55	3	57	2	65	5	65	4	66	4	62	3	74	3	61
15	April 6-12 -	6	68	3	59	3	64	5	64	5	61	4	67	4	63	6	61	5	62	6	71	7	72	6	72	6	68	5	79	5	66
16	13-19 -	6	74	4	63	4	68	5	69	4	65	4	71	4	67	6	67	4	66	3	74	5	77	4	76	4	72	3	82	4	70
17	April 20-26 -	5	79	4	67	3	71	3	72	3	68	2	73	3	70	3	70	4	70	2	76	4	81	3	79	3	75	2	84	3	73
18	April 27-May 3	6	85	5	72	6	77	6	78	6	74	6	79	6	76	6	76	6	76	7	83	6	87	6	85	6	81	6	90	6	79
19	May 4-10 -	2	87	5	77	3	80	1	79	2	76	2	81	3	79	4	80	4	80	2	85	3	90	3	88	3	84	3	93	3	82
20	11-17 -	2	89	2	79	2	82	1	80	1	77	1	82	1	80	3	83	1	81	3	88	5	95	6	94	4	88	2	95	2	84
21	18-24 -	2	91	1	80	1	83	1	81	1	78	0	82	1	81	3	86	1	82	1	89	4	99	4	98	3	91	1	96	2	86
22	May 25-31 -	1	92	1	81	1	84	1	82	1	79	1	83	1	82	0	86	1	83	0	89	1	100	1	99	1	92	1	97	1	87
	Spring Totals	56		44		42		42		42		41		42		50		44		46		59		58		51		42		47	
23	June 1-7 -	5	97	4	85	3	87	1	83	2	81	1	84	2	84	4	90	2	85	1	90	3	103	2	101	2	94	0	97	2	89
24	8-14 -	6	103	4	89	2	89	1	84	2	83	1	85	2	86	5	95	3	88	2	92	5	108	4	105	4	98	1	98	3	92
25	15-21 -	6	109	3	92	3	92	2	86	3	86	3	88	3	89	5	100	4	92	3	95	6	114	4	109	4	102	3	101	4	96
26	June 22-28 -	5	114	5	97	5	97	3	89	4	90	2	90	4	93	5	105	4	96	3	98	4	118	3	112	4	106	2	103	4	100
27	June 29-July 5	3	117	4	101	6	103	5	94	5	95	5	95	5	98	3	108	5	101	4	102	3	121	4	116	4	110	3	106	4	104
28	July 6-12 -	2	119	1	102	1	104	3	97	1	96	2	97	1	99	1	109	1	102	2	104	2	123	1	117	1	111	2	108	1	105
29	13-19 -	3	122	2	104	3	107	3	100	3	99	3	100	3	102	3	112	3	105	4	108	4	127	4	121	4	115	3	111	4	109
30	July 20-26 -	2	124	2	106	4	111	5	105	3	102	5	105	4	106	1	113	1	106	2	110	2	129	4	125	2	117	2	113	3	112
31	July 27-Aug. 2	4	128	2	108	2	113	2	107	1	103	1	106	2	108	3	116	2	108	1	111	2	131	2	127	2	119	2	115	2	114
32	Aug. 3-9 -	4	132	2	110	2	115	1	108	1	104	1	107	1	109	4	120	2	110	1	112	4	135	2	129	2	121	1	116	1	115
33	10-16 -	3	135	3	113	2	117	1	109	1	105	0	107	1	110	3	123	1	111	1	113	3	138	2	131	2	123	1	117	2	117
34	17-23 -	6	141	5	118	5	122	4	113	5	110	3	110	4	114	5	128	5	116	4	117	5	143	4	135	5	128	3	120	4	121
35	Aug. 24-30 -	6	147	4	122	4	126	5	118	6	116	6	116	5	119	5	133	6	122	7	124	6	149	7	142	6	134	6	126	6	127
	Summer Totals	55		41		42		36		37		33		38		47		39		35		49		43		42		29		40	
36	Aug. 31-Sept. 6	5	152	4	126	4	130	2	120	5	121	3	119	4	123	5	138	5	127	5	129	6	155	6	148	5	139	3	129	4	131
37	Sept. 7-13 -	4	156	3	129	2	132	1	121	2	123	0	119	2	125	3	141	2	129	2	131	3	158	2	150	3	142	1	130	3	134
38	14-20 -	5	161	4	133	3	135	3	124	3	126	2	121	3	128	3	144	3	132	3	134	4	162	3	153	3	145	3	133	3	137
39	Sept. 21-27 -	7	168	6	139	4	139	3	127	3	129	4	125	4	132	6	150	5	137	5	139	6	168	5	158	5	150	5	138	4	141
40	Sept. 28-Oct. 4	5	173	3	142	2	141	2	129	1	130	2	127	2	134	5	155	3	140	2	141	5	173	5	163	4	154	2	140	3	144
41	Oct. 5-11 -	4	177	3	145	4	145	3	132	1	131	1	128	2	136	4	159	2	142	2	143	4	177	3	166	3	157	1	141	3	147
42	12-18 -	6	183	4	149	3	148	3	135	3	134	2	130	3	139	2	161	3	145	3	146	4	181	3	169	3	160	4	145	3	150
43	Oct. 19-25 -	4	187	4	153	3	151	2	137	2	136	2	132	3	142	4	165	3	148	2	148	4	185	4	173	4	164	3	148	3	153
44	Oct. 26-Nov. 1	4	191	6	159	7	158	6	143	4	140	3	135	5	147	1	166	3	151	3	151	1	186	1	174	2	166	6	154	4	157
45	Nov. 2-8 -	6	197	7	166	6	164	5	148	5	145	5	140	6	153	3	169	3	154	4	155	3	189	2	176	3	169	6	160	4	161
46	9-15 -	4	201	4	170	6	170	5	153	4	149	4	144	4	157	3	172	3	157	3	158	3	192	2	178	3	172	5	165	4	165
47	16-22 -	7	208	5	175	5	175	4	157	6	155	6	150	5	162	7	179	6	163	6	164	7	199	7	185	6	178	7	172	5	170
48	Nov. 23-29 -	5	213	6	181	6	181	3	160	4	159	5	155	5	167	4	183	5	168	5	169	5	204	5	190	5	183	6	178	5	175
	Autumn Totals	66		59		55		42		43		39		48		50		46		45		55		48		49		52		48	
49	Nov. 30-Dec. 6	6	219	5	186	6	187	7	167	7	166	7	162	6	173	7	190	7	175	7	176	7	211	7	197	7	190	6	184	7	182
50	Dec. 7-13 -	5	224	5	191	5	192	4	171	3	169	3	165	4	177	5	195	3	178	5	181	7	218	6	203	5	195	5	189	4	186
51	14-20 -	6	230	5	196	5	197	6	177	5	174	5	170	5	182	6	201	6	184	6	187	6	224	5	208	6	201	6	195	6	192
52	21-27 -	6	236	5	201	5	202	6	183	6	180	6	176	6	188	5	206	6	190	7	194	7	231	7	215	6	207	7	202	6	198
53	Dec. 28 Jan. 3	4	240	5	206	4	206	5	188	5	185	6	182	5	193	6	212	5	195	7	201	6	237	6	221	6	213	7	209	5	203

NOTE.—The "day" for rainfall is from 9 h. on the civil day named till 9 h. the following morning.
A "rain-day" is a day on which the precipitation during this period amounts to 0·2 mm. or more.

(25000) Wt. 162/S.O.P. 512/833 625 12/18 HMSO., Harrow G. 17/38

TABLE II.—SHOWING THE WEEKLY AND PROGRESSIVE AMOUNTS OF RAINFALL IN EACH DISTRICT DURING THE YEAR 1919.

1919.		0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1-10 combined.	
Weeks.																															
No. of Week.	Limiting Dates of each Week.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.
		RAINFALL IN MILLIMETRES—1919.																													
	1919.	mm.	mm.	mm	mm.	mm	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.
1	Dec. 29-Jan. 4	25	25	41	41	43	43	25	25	37	37	36	36	36	36	46	46	31	31	43	43	30	30	24	24	35	35	42	42	36	36
2	Jan. 5-11 -	21	46	15	56	10	53	16	41	10	47	35	71	17	53	27	73	23	54	36	79	24	54	39	63	30	65	32	74	23	59
3	12-18 -	25	71	11	67	19	72	17	58	22	69	19	90	18	71	28	101	24	78	34	113	24	78	34	97	29	94	38	112	24	83
4	Jan. 19-25 -	22	93	21	88	18	90	11	69	18	87	14	104	16	87	35	136	13	91	26	139	20	98	21	118	23	117	36	148	19	102
5	Jan. 26-Feb. 1	16	109	13	101	12	102	11	80	9	96	14	118	12	99	9	145	7	98	9	148	12	110	9	127	9	126	14	162	11	113
6	Feb. 2-8 -	4	113	4	105	4	106	4	84	6	102	11	129	6	105	3	148	2	100	27	175	9	119	31	158	14	140	45	207	10	123
7	9-15 -	4	117	8	113	3	109	1	85	2	104	1	130	3	108	6	154	2	102	5	180	6	125	10	168	6	146	16	223	4	127
8	16-22 -	18	135	21	134	34	143	51	136	53	157	43	173	40	148	17	171	23	125	65	245	14	139	18	186	27	173	56	279	34	161
9	Feb. 23-Mar. 1	18	153	11	145	7	150	9	145	1	158	7	180	7	155	4	175	2	127	6	251	4	143	4	190	4	177	17	296	5	166
	Winter Totals	287		197		212		214		236		238		219		322		234		394		257		331		313		397		266	
10	Mar. 2-8 -	19	172	4	149	16	166	27	172	23	184	50	230	25	180	17	192	33	160	50	301	16	159	21	211	27	204	47	343	26	192
11	9-15 -	15	187	20	169	28	194	11	183	35	219	9	239	21	201	20	212	39	199	31	332	12	171	22	233	25	229	22	365	23	215
12	16-22 -	8	195	12	181	18	212	12	195	40	259	26	265	22	223	47	259	31	230	33	365	29	200	15	248	31	260	25	390	27	242
13	Mar. 23-29 -	35	230	16	197	4	216	7	202	7	266	12	277	9	232	14	273	11	241	15	380	14	214	13	261	13	273	31	421	11	253
14	Mar. 30-Apl. 5	28	258	7	204	3	219	1	203	2	268	1	278	3	235	5	278	8	249	4	384	9	223	5	266	6	279	4	425	4	257
15	April 6-12 -	53	311	6	210	4	223	8	211	7	275	12	290	7	242	25	303	10	259	15	399	18	241	14	280	16	295	16	441	12	269
16	13-19 -	33	344	26	236	14	237	18	229	17	292	22	312	19	261	22	325	16	275	23	421	12	253	13	293	17	312	16	457	18	287
17	April 20-26 -	16	360	11	247	5	242	8	237	7	299	5	317	7	268	9	334	9	284	6	427	10	263	6	299	8	320	2	459	7	294
18	April 27-May 3	24	384	21	268	22	264	27	264	22	321	27	344	24	292	19	353	23	307	22	449	23	286	13	312	20	340	15	474	22	316
19	May 4-10 -	5	389	13	281	6	270	4	268	11	332	4	348	10	302	12	365	9	316	5	454	8	294	11	323	9	349	4	478	10	326
20	11-17 -	5	394	8	289	4	274	2	270	2	334	2	350	3	305	6	371	4	320	9	463	25	319	38	361	16	365	14	492	9	335
21	18-24 -	3	397	1	290	2	276	1	271	2	336	0	350	1	306	5	376	8	328	4	467	12	331	19	380	10	375	11	503	6	341
22	May 25-31 -	1	398	1	291	1	277	5	276	2	338	1	351	2	308	0	376	2	330	0	467	0	331	1	381	1	376	3	506	1	342
	Spring Totals	245		146		127		131		180		171		151		201		203		216		188		191		200		210		176	
23	June 1-7 -	24	422	10	301	4	281	2	278	3	341	1	352	4	312	12	388	5	335	2	469	17	348	3	384	10	386	0	506	7	349
24	8-14 -	28	450	14	315	3	284	2	280	7	348	1	353	5	317	54	442	11	346	11	480	38	386	33	417	29	415	0	506	17	366
25	15-21 -	35	485	8	323	4	288	17	297	7	355	15	368	10	327	33	475	12	358	9	489	21	407	9	426	17	432	9	515	14	380
26	June 22-28 -	21	506	10	333	9	297	6	303	5	360	2	370	6	333	9	484	8	366	7	496	10	417	8	434	8	440	8	523	7	387
27	June 29-July 5	11	517	13	346	29	326	20	323	24	384	18	388	21	354	6	490	19	385	14	510	7	424	12	446	12	452	22	545	16	403
28	July 6-12 -	4	521	1	347	5	331	15	338	9	393	9	397	8	362	2	492	3	388	4	514	2	426	2	448	2	454	9	554	5	408
29	13-19 -	6	527	8	355	14	345	9	347	29	422	14	411	15	377	11	503	8	396	19	533	16	442	13	461	13	467	7	561	14	422
30	July 20-26 -	8	535	3	358	9	354	26	373	10	432	14	425	12	389	1	504	6	402	7	540	7	449	14	475	7	474	2	563	10	432
31	July 27-Aug. 2	20	555	6	364	3	357	2	375	2	434	1	426	3	392	22	526	8	410	1	541	5	454	2	477	8	482	1	564	5	437
32	Aug. 3-9 -	5	560	3	367	4	361	1	376	3	437	1	427	2	394	11	537	4	414	3	544	7	461	2	479	5	487	9	573	4	441
33	10-16 -	14	574	7	374	4	365	2	378	1	438	0	427	3	397	11	548	3	417	1	545	9	470	2	481	5	492	0	573	4	445
34	17-23 -	41	615	14	388	17	382	17	395	22	460	8	435	16	413	30	578	25	442	21	566	21	491	25	506	31	516	14	587	20	465
35	Aug. 24-30 -	48	663	30	418	40	422	40	435	37	497	51	486	40	453	34	612	52	494	54	620	37	528	42	548	45	561	50	637	42	507
	Summer Totals	265		127		145		159		159		135		145		236		164		153		197		167		184		131		165	
36	Aug. 31-Sept. 6	17	680	11	429	16	438	6	441	18	515	15	501	13	466	38	650	23	517	21	641	23	551	28	576	27	588	35	672	20	527
37	Sept. 7-13 -	17	697	13	442	6	444	0	441	6	521	0	501	5	471	15	665	3	520	2	643	13	564	3	579	7	595	0	672	6	533
38	14-20 -	37	734	16	458	7	451	7	448	7	528	8	509	9	480	8	673	8	528	9	652	9	573	5	584	8	603	12	684	9	542
39	Sept. 21-27 -	69	803	25	483	10	461	8	456	11	539	12	521	13	493	34	707	25	553	15	667	24	597	18	602	23	626	8	692	18	560
40	Sept. 28-Oct. 4	20	823	4	487	2	463	6	462	4	543	4	525	4	497	27	734	9	562	7	674	28	625	20	622	18	644	5	697	11	571
41	Oct. 5-11 -	11	834	6	493	6	469	7	469	1	544	0	525	4	501	5	739	4	566	3	677	8	633	4	626	5	649	5	702	4	575
42	12-18 -	27	861	17	510	9	478	8	477	6	550	4	529	9	510	7	746	19	585	7	684	11	644	5	631	10	659	14	716	10	585
43	Oct. 19-25 -	21	882	20	530	21	502	2	479	35	585	8	537	18	528	31	777	33	618	30	714	16	660	17	648	25	684	12	728	21	606
44	Oct. 26-Nov. 1	15	897	25	555	52	554	28	507	13	598	8	545	25	553	1	778	4	622	6	720	1	661	1	649	3	687	14	742	14	620
45	Nov. 2-8 -	23	920	38	593	24	578	15	522	8	606	8	553	19	572	4	782	4	626	7	727	12	673	4	653	6	693	30	772	13	633
46	9-15 -	12	932	17	610	17	595	9	531	4	610	13	566	12	584	6	788	5	631	9	736	7	680	8	661	7	700	31	803	9	642
47	16-22 -	69	1001	30	640	8	603	11	542	15	625	13	579	15	599	57	845	31	662	34	770	25	705	24	685	34	734	26	829	25	667
48	Nov. 23-29 -	34	1035	38	678	19	622	10	552	10	635	22	601	20	619	25	870	13	675	19	789	31	736	15	700	20	754	35	864	20	687
	Autumn Totals	372		260		200		117		138		115		166		258		181		169		208		152		193		227		180	
49	Nov. 30-Dec. 6	41	1076	24	702	11	633	45	597	34	669	52	653	33	652	59	929	27	702	69	858	40	776	32	732	45	799	39	903	39	726
50	Dec. 7-13 -	27	1103	19	721	10	643	9	606	5	674	6	659	10	662	54	983	9	711	21	879	37	813	39	771	32	831	9	912	21	747
51	14-20 -	48	1151	27	748	22	665	9	615	19	693	16	675	18	680	39	1022	33	744	25	904	25	838	23	794	29	860	14	926	23	770
52	21-27 -	36	1187	16	764	18	683	23	638	29	722	24	699	22	702	47	1069	46	790	37	941	51	889	28	822	42	902	37	963	32	802
53	Dec. 28-Jan. 3	16	1203	26	790	19	702	20	658	21	743	31	730	23	725	36	1105	23	813	51	992	36	925	42	864	38	940	51	1014	31	833

NOTE.—The rainfall week is from 9h. on one Sunday morning to the same hour on the next.

TABLE III.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF ACCUMULATED HEAT ABOVE 42° F. IN EACH DISTRICT DURING THE YEAR 1919.

1919.		0. Scot-land, N.		Eastern Districts.										Western Districts.															
				1. Scot-land, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scot-land, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1-10 combined.	
No. of Week.	Weeks. Limiting Dates of each Week.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.
	DAY-DEGREES ABOVE 42° FAHRENHEIT—1919.																												
1	**1919.** Dec. 29-Jan. 4	0	0	0	0	3	3	9	9	7	7	21	21	8	8	0	0	7	7	18	18	7	7	18	18	10	10	32	32	9	9
2	Jan. 5-11 -	1	1	0	0	1	4	5	14	1	8	10	31	3	11	3	3	1	8	8	26	3	10	7	25	4	14	21	53	4	13
3	12-18 -	0	1	0	0	3	7	10	24	10	18	24	55	10	21	5	8	7	15	25	51	8	18	12	37	12	26	34	87	11	24
4	Jan. 19-25 -	3	4	0	0	0	7	0	24	0	18	0	55	0	21	2	10	0	15	4	55	19	37	24	61	10	36	16	103	5	29
5	Jan. 26-Feb. 1	0	4	0	0	0	7	0	24	0	18	0	55	0	21	0	10	0	15	0	55	0	37	0	61	0	36	1	104	0	29
6	Feb. 2-8 -	0	4	0	0	0	7	0	24	0	18	0	55	0	21	0	10	0	15	0	55	0	37	9	70	2	38	7	111	1	30
7	9-15 -	0	4	0	0	0	7	0	24	0	18	0	55	0	21	0	10	0	15	0	55	4	41	8	78	2	40	7	118	1	31
8	16-22 -	0	4	0	0	0	7	7	31	1	19	21	76	6	27	0	10	3	18	19	74	7	48	21	99	10	50	29	147	8	39
9	Feb. 23-Mar. 1	0	4	0	0	3	10	4	35	4	23	7	83	3	30	7	17	3	21	8	82	9	57	11	110	8	58	21	168	5	44
	Winter Totals	69		66		101		143		138		230		135		106		138		246		188		278		191		384		163	
10	Mar. 2-8 -	0	4	0	0	9	19	20	55	11	34	28	111	14	44	4	21	8	29	24	106	11	68	13	123	12	70	38	206	13	57
11	9-15 -	4	8	3	3	8	27	18	73	15	49	26	137	14	58	13	34	9	38	16	122	14	82	16	141	14	84	28	234	14	71
12	16-22 -	0	8	0	3	0	27	0	73	0	49	3	140	0	58	0	34	0	38	7	129	6	88	13	154	5	89	21	255	2	73
13	Mar. 23-29 -	0	8	0	3	0	27	0	73	0	49	4	144	1	59	0	34	0	38	3	132	2	90	6	160	2	91	10	265	2	75
14	Mar. 30-Apl. 5	6	14	9	12	17	44	17	90	17	66	17	161	15	74	15	49	10	48	15	147	17	107	19	179	15	106	20	285	15	90
15	April 6-12 -	27	41	39	51	42	86	47	137	43	109	42	203	43	117	33	82	37	85	36	183	38	145	42	221	37	143	41	326	40	130
16	13-19 -	25	66	34	85	43	129	45	182	45	154	46	249	43	160	33	115	33	118	41	224	35	180	45	266	37	180	48	374	40	170
17	April 20-26 -	26	92	35	120	35	164	32	214	40	194	39	288	36	196	38	153	32	150	39	263	39	219	47	313	39	219	43	417	37	207
18	April 27-May 3	13	105	13	133	29	193	31	245	32	226	32	320	27	223	25	178	24	174	28	291	27	246	34	347	28	247	33	450	28	235
19	May 4-10 -	37	142	36	169	46	239	71	316	73	299	79	399	61	284	55	233	66	240	70	361	49	295	57	404	59	306	83	533	60	295
20	11-17 -	85	227	87	256	97	336	110	426	113	412	109	508	103	387	97	330	114	354	91	452	91	386	90	494	97	403	101	634	100	395
21	18-24 -	74	301	78	334	81	417	91	517	97	509	98	606	89	476	87	417	93	447	88	540	85	471	89	583	88	491	91	725	89	484
22	May 25-31 -	90	391	89	423	95	512	86	603	110	619	101	707	96	572	111	528	115	562	106	646	109	580	118	701	112	603	106	831	104	588
	Spring Totals	387		423		502		568		596		624		543		511		541		564		523		591		546		663		544	
23	June 1-7 -	77	468	99	522	106	618	100	703	119	738	110	817	107	679	101	629	110	672	111	757	99	679	123	824	109	712	110	941	108	596
24	8-14 -	68	536	87	609	120	738	130	833	127	865	124	941	118	797	85	714	111	783	110	867	77	756	86	910	94	806	120	1061	106	802
25	15-21 -	65	601	79	688	113	851	122	955	113	978	114	1055	108	905	78	792	93	876	97	964	77	833	90	1000	87	893	112	1173	97	899
26	June 22-28 -	58	659	68	756	75	926	80	1035	83	1061	91	1146	80	985	70	862	77	953	88	1052	77	910	92	1092	81	974	95	1268	81	980
27	June 29-July 5	62	721	58	814	73	999	78	1113	77	1138	86	1232	74	1059	79	941	79	1032	85	1137	79	989	94	1186	83	1057	98	1366	78	1058
28	July 6-12 -	80	801	89	903	91	1090	92	1205	107	1245	112	1344	98	1157	95	1036	95	1127	115	1252	90	1079	107	1293	100	1157	120	1486	99	1157
29	13-19 -	83	884	93	996	109	1199	114	1319	120	1365	116	1460	110	1267	99	1135	109	1236	116	1368	99	1178	115	1408	108	1265	116	1602	109	1266
30	July 20-26 -	86	970	88	1084	97	1296	99	1418	104	1469	110	1570	100	1367	99	1234	108	1344	111	1479	99	1277	116	1524	107	1372	125	1727	103	1369
31	July 27-Aug. 2	89	1059	96	1180	104	1400	111	1529	118	1587	120	1690	110	1477	92	1326	106	1450	120	1599	103	1380	118	1642	108	1480	127	1854	109	1478
32	Aug. 3-9 -	94	1153	109	1289	124	1524	130	1659	132	1719	137	1827	126	1603	115	1441	121	1571	132	1731	116	1496	132	1774	123	1603	140	1994	125	1603
33	10-16 -	102	1255	127	1416	151	1675	164	1823	165	1884	172	1999	156	1759	126	1567	141	1712	159	1890	135	1631	155	1929	143	1746	165	2159	150	1753
34	17-23 -	85	1340	93	1509	127	1802	145	1968	134	2018	148	2147	130	1889	105	1672	123	1835	139	2029	112	1743	129	2058	122	1868	155	2314	126	1879
35	Aug. 24-30 -	49	1389	55	1564	79	1881	99	2067	87	2105	115	2262	87	1976	61	1733	76	1911	103	2132	75	1818	93	2151	81	1949	130	2444	84	1963
	Summer Totals	998		1141		1369		1464		1486		1555		1403		1205		1349		1486		1238		1450		1345		1613		1374	
36	Aug. 31-Sept. 6	86	1475	98	1662	117	1998	131	2198	115	2220	133	2395	119	2095	102	1835	111	2022	114	2246	105	1923	111	2262	109	2058	130	2574	114	2077
37	Sept. 7-13 -	88	1563	98	1760	126	2124	145	2343	128	2348	148	2543	129	2224	99	1934	118	2140	133	2379	109	2032	114	2376	114	2172	151	2725	121	2198
38	14-20 -	50	1613	58	1818	63	2187	84	2427	70	2418	95	2638	74	2298	58	1992	72	2212	92	2471	63	2095	80	2456	73	2245	124	2849	74	2272
39	Sept. 21-27 -	34	1647	41	1859	60	2247	61	2488	62	2480	75	2713	60	2358	47	2039	64	2276	71	2542	43	2138	70	2526	59	2304	95	2944	59	2331
40	Sept. 28-Oct. 4	50	1697	48	1907	56	2303	58	2546	59	2539	61	2774	56	2414	53	2902	52	2328	56	2598	62	2200	70	2596	59	2363	84	3028	58	2389
41	Oct. 5-11 -	38	1735	45	1952	53	2356	49	2595	52	2591	53	2827	50	2464	59	2151	49	2377	53	2651	76	2276	88	2684	65	2428	90	3118	57	2446
42	12-18 -	22	1757	24	1976	32	2388	24	2619	36	2627	43	2870	32	2496	33	2184	31	2408	39	2690	37	2313	39	2723	36	2464	55	3173	34	2480
43	Oct. 19-25 -	55	1812	42	2018	44	2432	50	2669	48	2675	52	2922	47	2543	50	2234	50	2458	60	2750	68	2381	72	2795	60	2524	76	3249	54	2534
44	Oct. 26-Nov. 1	7	1819	7	2025	10	2442	12	2681	9	2684	12	2934	10	2553	13	2247	12	2470	15	2765	18	2399	18	2813	15	2539	32	3281	12	2546
45	Nov. 2-8 -	2	1821	0	2025	4	2446	2	2683	0	2684	2	2936	2	2555	3	2250	3	2473	4	2769	8	2407	8	2821	5	2544	22	3303	4	2550
46	9-15 -	0	1821	0	2025	0	2446	0	2683	0	2684	0	2936	0	2555	0	2250	0	2473	0	2769	0	2407	0	2821	0	2544	1	3304	0	2550
47	16-22 -	5	1826	3	2028	10	2456	13	2696	16	2700	19	2955	12	2567	13	2263	15	2488	33	2802	30	2437	36	2857	25	2569	43	3347	18	2568
48	Nov. 23-29 -	0	1826	0	2028	3	2459	6	2702	3	2703	10	2965	4	2571	3	2266	5	2493	8	2810	7	2444	9	2866	7	2576	25	3372	6	2574
	Autumn Totals	437		464		578		635		598		703		595		533		582		678		626		715		627		928		611	
49	Nov. 30-Dec. 6	5	1831	2	2030	11	2470	28	2730	27	2730	33	2998	20	2591	11	2277	24	2517	33	2843	28	2472	37	2903	26	2602	44	3416	23	2597
50	Dec. 7-13 -	4	1835	0	2030	0	2470	0	2730	3	2733	4	3002	2	2593	5	2282	7	2524	20	2863	12	2484	25	2928	14	2616	23	3439	8	2605
51	14-20 -	11	1846	11	2041	11	2481	11	2741	25	2758	27	3029	17	2610	21	2303	24	2548	29	2892	29	2513	33	2961	27	2643	37	3476	22	2627
52	Dec. 21-27 -	0	1846	0	2041	3	2484	13	2754	14	2772	31	3060	12	2622	1	2304	10	2558	28	2920	24	2537	26	2987	18	2661	42	3518	15	2642
53	Dec. 28-Jan. 3	0	1846	0	2041	1	2485	8	2762	5	2777	12	3072	5	2627	0	2304	5	2563	21	2941	7	2544	12	2999	9	2670	29	3547	7	2649

NOTE.—The method of computing Accumulated Temperature is explained in the Guide to the Tables of the Weekly Weather Report.

TABLE IV.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF **ACCUMULATED COLD** BELOW 42° F. IN EACH DISTRICT DURING THE YEAR 1919.

1919.		0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1-10 combined.	
Weeks.																															
No. of Week.	Limiting Dates of each Week.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.
	DAY-DEGREES BELOW 42° FAHRENHEIT—1919.																														
	1919.																														
1	Dec. 29-Jan. 4	48	48	52	52	26	26	22	22	22	22	9	9	26	26	29	29	21	21	9	9	22	22	11	11	18	18	0	0	22	22
2	Jan. 5-11 -	24	72	32	84	26	52	24	46	28	50	18	27	26	52	23	52	24	45	22	31	26	48	30	41	25	43	3	3	26	48
3	12-18 -	29	101	40	124	35	87	30	76	30	80	15	42	30	82	24	76	24	69	10	41	28	76	28	69	23	66	0	3	26	74
4	Jan. 19-25 -	26	127	37	161	50	137	50	126	52	132	43	85	46	128	21	97	25	94	32	73	10	86	8	77	19	85	8	11	33	107
5	Jan. 26-Feb. 1	62	189	58	219	47	184	67	193	63	195	62	147	59	187	46	143	46	140	50	123	37	123	38	115	44	129	22	33	51	158
6	Feb. 2-8 -	73	262	81	300	60	244	72	265	71	266	65	212	70	257	51	194	55	195	48	171	25	148	17	132	39	168	21	54	55	213
7	9-15 -	59	321	70	370	64	308	72	337	85	351	55	267	69	326	48	242	53	248	43	214	30	178	19	151	39	207	24	78	54	267
8	16-22 -	51	372	54	424	25	333	23	360	25	376	10	277	28	354	32	274	24	272	11	225	26	204	13	164	21	228	0	78	21	291
9	Feb. 23-Mar. 1	36	408	44	468	32	365	29	389	35	411	25	302	33	387	41	315	35	307	29	254	40	244	43	207	38	266	6	84	36	327
	Winter Totals	492		578		430		445		469		339		452		375		352		271		282		230		302		84		377	
10	Mar. 2-8 -	48	456	51	519	33	398	13	402	25	436	7	309	26	413	38	353	30	337	8	261	34	278	25	232	27	293	0	84	26	353
11	9-15 -	29	485	32	551	24	422	17	419	30	466	12	321	23	436	28	381	23	360	22	284	29	307	25	257	25	318	0	84	24	377
12	16-22 -	39	524	54	605	35	457	33	452	38	504	29	350	38	474	41	422	36	396	28	312	29	336	26	283	32	350	10	94	35	412
13	Mar. 23-29 -	60	584	71	676	46	503	45	497	48	552	34	384	49	522	50	472	46	442	37	349	42	378	38	321	43	393	16	110	46	458
14	Mar. 30-April 5	32	616	32	708	34	537	43	540	39	591	40	424	38	560	32	504	29	471	37	386	31	409	29	350	31	424	27	137	34	492
15	April 6-12 -	10	626	11	719	4	541	7	547	2	593	4	428	6	566	3	507	0	471	1	387	4	413	0	350	2	426	0	137	4	496
16	13-19 -	10	636	12	731	6	547	4	551	4	597	1	429	5	571	3	510	3	474	4	391	2	415	0	350	2	428	0	137	3	499
17	April 20-26 -	14	650	17	748	13	560	15	566	16	613	10	439	14	585	12	522	9	483	10	401	10	425	8	358	10	438	0	137	12	511
18	April 27-May 3	30	680	32	780	18	578	14	580	15	628	12	451	18	603	17	539	11	494	8	409	12	437	4	362	10	448	0	137	14	525
19	May 4-10 -	0	680	7	787	0	578	0	580	0	628	0	451	1	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	1	526
20	11-17 -	0	680	0	787	0	578	0	580	0	628	0	451	0	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	0	526
21	18-24 -	0	680	0	787	0	578	0	580	0	628	0	451	0	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	0	526
22	May 25-31 -	0	680	0	787	0	578	0	580	0	628	0	451	0	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	0	526
	Spring Totals	272		319		213		191		217		149		218		224		187		155		193		155		183		53		201	
23	June 1-7 -	0	680	0	787	0	578	0	580	0	628	0	451	0	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	0	526
24	8-14 -	0	680	0	787	0	578	0	580	0	628	0	451	0	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	0	526
25	15-21 -	0	680	0	787	0	578	0	580	0	628	0	451	0	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	0	526
26	June 22-28 -	0	680	0	787	0	578	0	580	0	628	0	451	0	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	0	526
27	June 29-July 5	0	680	0	787	0	578	0	580	0	628	0	451	0	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	0	526
28	July 6-12 -	0	680	0	787	0	578	0	580	0	628	0	451	0	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	0	526
29	13-19 -	0	680	0	787	0	578	0	580	0	628	0	451	0	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	0	526
30	July 20-26 -	0	680	0	787	0	578	0	580	0	628	0	451	0	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	0	526
31	July 27-Aug. 2	0	680	0	787	0	578	0	580	0	628	0	451	0	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	0	526
32	Aug. 3-9 -	0	680	0	787	0	578	0	580	0	628	0	451	0	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	0	526
33	10-16 -	0	680	0	787	0	578	0	580	0	628	0	451	0	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	0	526
34	17-23 -	0	680	0	787	0	578	0	580	0	628	0	451	0	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	0	526
35	Aug. 24-30 -	0	680	0	787	0	578	0	580	0	628	0	451	0	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	0	526
	Summer Totals	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
36	Aug 31-Sept. 6	0	680	0	787	0	578	0	580	0	628	0	451	0	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	0	526
37	Sept. 7-13 -	0	680	0	787	0	578	0	580	0	628	0	451	0	604	0	539	0	494	0	409	0	437	0	362	0	448	0	137	0	526
38	14-20 -	0	680	7	794	0	578	0	580	0	628	0	451	1	605	3	542	0	494	0	409	0	437	0	362	1	449	0	137	1	527
39	Sept. 21-27 -	0	680	3	797	0	578	0	580	0	628	0	451	1	606	0	542	0	494	0	409	0	437	0	362	0	449	0	137	0	527
40	Sept. 28-Oct 4	0	680	2	799	5	583	11	591	15	643	10	461	9	615	0	542	0	494	3	412	0	437	0	362	1	450	0	137	5	532
41	Oct. 5-11 -	1	681	2	801	3	586	0	591	11	654	0	461	3	618	0	542	0	494	0	412	0	437	0	362	0	450	0	137	2	534
42	12-18 -	13	694	15	816	19	605	34	625	20	674	25	486	23	641	11	553	9	503	11	423	11	448	3	365	9	459	0	137	16	550
43	Oct. 19-25 -	0	694	0	816	4	609	12	637	9	683	8	494	7	648	0	553	0	503	0	423	0	448	0	365	0	459	0	137	4	554
44	Oct. 26-Nov. 1	22	716	22	838	21	630	23	660	26	709	24	518	23	671	25	578	17	520	26	449	24	472	29	394	24	483	0	137	23	577
45	Nov. 2-8 -	23	739	30	868	23	653	21	681	27	736	20	538	24	695	27	605	22	542	23	472	28	500	32	426	26	509	1	138	25	602
46	9-15 -	81	820	103	971	62	715	50	731	64	800	50	588	66	761	73	678	61	603	55	527	57	557	65	491	62	571	27	165	64	666
47	16-22 -	36	856	48	1019	38	753	35	766	33	833	19	607	35	796	34	712	27	630	10	537	13	570	14	505	20	591	0	165	28	694
48	Nov. 23-29 -	34	890	34	1053	25	778	32	798	27	860	24	631	28	824	27	739	19	649	19	556	26	596	22	527	22	613	2	167	25	719
	Autumn Totals	210		266		200		218		232		180		219		200		155		147		159		165		165		30		192	
49	Nov. 30-Dec. 6	27	917	35	1088	29	807	18	816	17	877	13	644	22	846	24	763	12	661	8	564	17	613	13	540	15	628	0	167	18	737
50	Dec. 7-13 -	27	944	31	1119	31	838	33	849	27	904	27	671	30	876	23	786	22	683	12	576	23	636	11	551	18	646	3	170	24	761
51	14-20 -	12	956	25	1144	24	862	28	877	16	920	14	685	21	897	7	793	9	692	6	582	10	646	8	559	8	654	0	170	15	776
52	Dec. 21-27 -	52	1008	60	1204	31	893	29	906	27	947	11	696	32	929	34	827	20	712	5	587	15	661	4	563	16	670	0	170	24	800
53	Dec. 28-Jan. 3	52	1060	58	1262	32	925	28	934	28	975	22	718	34	963	35	862	23	735	12	599	29	690	27	590	25	695	0	170	29	829

NOTE.—The method of computing Accumulated Temperature is explained in the Guide to the Tables of the Weekly Weather Report.

TABLE V.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF HOURS OF BRIGHT SUNSHINE IN EACH DISTRICT REGISTERED DURING THE YEAR 1919.

1919.		0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1-10 combined.	
Weeks.																															
No. of Week.	Limiting Dates of each Week.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.
	Numbers of Hours of Bright Sunshine—1919.																														
	1919.	Hrs	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.
1	Dec. 29-Jan. 4	5	5	4	4	6	6	10	10	9	9	7	7	7	7	8	8	8	8	10	10	12	12	17	17	11	11	6	6	9	9
2	Jan. 5-11 -	1	6	7	11	9	15	9	19	11	20	8	15	9	16	7	15	9	17	13	23	8	20	12	29	10	21	16	22	10	19
3	12-18 -	13	19	18	29	16	31	11	30	12	32	15	30	14	30	14	29	16	33	17	40	13	33	13	42	15	36	18	40	14	33
4	Jan. 19-25 -	5	24	1	30	2	33	2	32	6	38	8	38	4	34	2	31	4	37	11	51	9	42	11	53	7	43	10	50	6	39
5	Jan. 26-Feb. 1	12	36	12	42	8	41	2	34	4	42	2	40	6	40	14	45	11	48	18	69	19	61	20	73	16	59	16	66	11	50
6	Feb. 2-8 -	13	49	14	56	14	55	19	53	12	54	14	54	15	55	3	48	7	55	9	78	10	71	12	85	8	67	12	78	11	61
7	9-15 -	20	69	22	78	20	75	26	79	23	77	34	88	25	80	13	61	26	81	30	108	27	98	24	109	24	91	29	107	25	86
8	16-22 -	9	78	3	81	1	76	1	80	1	78	2	90	2	82	6	67	7	88	7	115	10	108	10	119	8	99	9	116	5	91
9	Feb. 23-Mar. 1	22	100	20	101	18	94	12	92	16	94	10	100	15	97	35	102	23	111	22	137	36	144	33	152	30	129	15	131	22	113
	Winter Totals	124		139		126		122		124		133		129		129		135		171		185		197		163		171		146	
10	Mar. 2-8 -	24	124	31	132	18	112	11	103	14	108	12	112	17	114	17	119	16	127	19	156	17	161	20	172	18	147	25	156	18	131
11	9-15 -	36	160	16	148	6	118	13	116	15	123	18	130	14	128	28	147	15	142	25	181	26	187	21	193	23	170	30	186	18	149
12	16-22 -	31	191	21	169	17	135	14	130	15	138	10	140	15	143	15	162	16	158	23	204	11	198	18	211	17	187	26	212	16	165
13	Mar. 23-29 -	30	221	36	205	37	172	38	168	39	177	36	176	37	180	41	203	38	196	40	244	32	230	30	241	36	223	21	233	37	202
14	Mar. 30Apr. 5	25	246	19	224	34	206	42	210	33	210	47	223	35	215	30	233	29	225	42	286	30	260	37	278	34	257	63	296	34	236
15	April 6-12 -	33	279	33	257	26	232	21	231	21	231	21	244	24	239	30	263	27	252	29	315	29	289	20	308	29	286	28	324	27	263
16	13-19 -	26	305	23	280	24	256	30	261	27	258	33	277	27	266	21	284	22	274	35	350	27	316	27	335	27	313	52	376	27	290
17	April 20-26 -	31	336	33	313	35	291	22	283	36	294	30	307	31	297	53	337	46	320	53	403	57	373	53	388	52	365	63	439	41	331
18	April 27-May 3	30	366	34	347	33	324	33	316	25	319	25	332	30	327	50	367	32	352	21	424	32	405	28	416	29	394	19	458	30	361
19	May 4-10 -	26	392	15	362	23	347	43	359	23	342	43	375	29	356	29	396	33	385	38	462	29	434	38	454	33	427	46	504	31	392
20	11-17 -	48	440	50	412	61	408	67	426	55	397	61	436	59	415	36	432	49	434	44	506	30	464	23	477	36	463	52	556	47	439
21	18-24 -	50	490	51	463	66	474	75	501	64	461	74	510	66	481	41	473	52	486	36	542	40	504	34	511	41	504	42	598	54	493
22	May 25-31 -	47	537	55	518	65	539	76	577	67	528	71	581	67	548	72	545	74	560	74	616	71	575	65	576	71	575	66	664	69	562
	Spring Totals	437		417		445		485		434		481		452		443		449		479		431		424		445		533		449	
23	June 1-7 -	13	550	30	548	45	584	45	622	44	572	46	627	42	590	32	577	46	606	47	663	38	613	54	630	43	618	51	715	42	604
24	8-14 -	43	593	57	605	70	654	74	696	70	642	66	693	67	657	60	637	66	672	65	728	36	649	40	670	53	671	57	772	60	664
25	15-21 -	46	639	43	648	44	698	69	765	52	694	68	761	55	712	46	683	46	718	47	775	40	689	36	706	43	714	60	832	49	713
26	June 22-28	30	669	39	687	24	722	25	790	28	722	33	794	30	742	40	723	30	748	37	812	23	712	28	734	32	746	47	879	31	744
27	June 29-July 5	22	691	25	712	16	738	25	815	16	738	22	816	21	763	42	765	22	770	50	862	48	760	44	778	41	787	43	922	31	775
28	July 6-12 -	29	720	54	766	26	764	23	838	35	773	30	846	33	796	58	823	39	809	54	916	28	788	45	823	45	832	45	967	39	814
29	13-19 -	31	751	56	822	48	812	42	880	35	808	37	883	44	840	38	861	39	848	30	946	16	804	27	850	30	862	43	1010	37	851
30	July 20-26 -	41	792	34	856	25	837	21	901	27	835	24	907	26	866	71	932	48	896	57	1003	40	844	43	893	52	914	59	1069	39	890
31	July 27-Aug. 2	11	803	41	897	30	867	26	927	34	869	37	944	34	900	33	971	36	932	47	1050	41	885	38	931	40	954	54	1123	37	927
32	Aug. 3-9 -	22	825	35	932	47	914	55	982	53	922	67	1011	51	951	47	1018	36	968	60	1110	36	921	49	980	46	1000	63	1186	48	975
33	10-16 -	18	843	48	980	61	975	74	1056	68	990	76	1087	65	1016	44	1062	56	1024	67	1177	50	971	49	1029	53	1053	75	1261	59	1034
34	17-23 -	55	898	55	1035	36	1011	39	1095	33	1023	38	1125	40	1056	45	1107	35	1059	37	1214	37	1008	41	1070	39	1092	47	1308	40	1074
35	Aug. 24—30 -	27	925	24	1059	25	1036	27	1122	25	1048	32	1157	27	1083	33	1140	25	1084	25	1239	24	1032	23	1093	26	1118	37	1345	26	1100
	Summer Totals	388		541		497		545		520		576		534		595		524		623		457		517		543		681		538	
36	Aug.31-Sept. 6	31	956	37	1096	25	1061	38	1160	22	1070	36	1193	32	1115	37	1177	31	1115	31	1270	34	1066	43	1136	35	1153	44	1389	34	1134
37	Sept. 7-13 -	38	994	34	1130	41	1102	55	1215	42	1112	59	1252	46	1161	24	1201	37	1152	42	1312	34	1100	31	1167	34	1187	56	1445	40	1174
38	14-20 -	29	1023	43	1173	29	1131	29	1244	28	1140	36	1288	33	1194	41	1242	37	1189	25	1337	38	1138	37	1204	36	1223	36	1481	34	1208
39	Sept. 21-27 -	22	1045	31	1204	36	1167	30	1274	33	1173	23	1311	31	1225	33	1275	32	1221	33	1370	22	1160	28	1232	30	1253	26	1507	31	1239
40	Sept. 28-Oct. 4	11	1055	23	1227	42	1209	50	1324	45	1218	48	1359	42	1267	21	1296	33	1254	52	1422	17	1177	26	1258	30	1283	53	1560	36	1275
41	Oct. 5-11 -	28	1083	25	1252	35	1244	32	1356	38	1256	35	1394	33	1300	28	1324	32	1286	37	1459	12	1189	21	1279	26	1309	35	1595	29	1304
42	12-18 -	18	1101	18	1270	29	1273	32	1388	33	1289	40	1434	31	1331	26	1350	27	1313	36	1495	27	1216	34	1313	30	1339	47	1642	31	1335
43	Oct. 19-25 -	15	1116	15	1285	22	1295	26	1414	22	1311	28	1462	23	1354	11	1361	17	1330	17	1512	19	1235	18	1331	16	1355	23	1665	19	1354
44	Oct. 26-Nov. 1	25	1141	17	1302	18	1313	17	1431	22	1333	22	1484	19	1373	38	1399	25	1355	32	1544	38	1273	39	1370	34	1389	28	1693	27	1381
45	Nov. 2-8 -	6	1147	4	1306	5	1318	2	1433	3	1336	1	1485	3	1376	6	1405	3	1358	9	1553	9	1282	21	1391	9	1398	9	1702	6	1387
46	9-15 -	20	1167	23	1329	9	1327	15	1448	9	1345	14	1499	14	1390	21	1426	19	1377	19	1572	31	1313	30	1421	24	1422	21	1723	19	1406
47	16-22 -	4	1171	15	1344	22	1349	20	1468	15	1360	18	1517	18	1408	10	1436	11	1388	11	1583	8	1321	9	1430	10	1432	12	1735	14	1420
48	Nov. 23-29 -	7	1178	14	1358	8	1357	14	1482	10	1370	16	1533	12	1420	10	1446	8	1396	18	1601	17	1338	16	1446	14	1446	19	1754	13	1433
	Autumn Totals	254		299		321		380		322		376		336		306		312		362		306		353		328		409		332	
49	Nov. 30-Dec. 6	10	1188	12	1370	10	1367	10	1492	8	1378	10	1543	10	1430	9	1455	6	1402	10	1611	12	1350	13	1459	10	1456	10	1764	10	1443
50	Dec. 7-13 -	6	1194	12	1382	10	1377	10	1502	12	1390	11	1554	11	1441	15	1470	15	1417	19	1630	9	1359	14	1473	14	1470	18	1782	13	1456
51	14-20 -	0	1194	6	1388	4	1381	3	1505	4	1394	4	1558	4	1445	5	1475	5	1422	7	1637	6	1365	8	1481	6	1476	5	1787	5	1461
52	21-27 -	4	1198	9	1397	8	1389	8	1513	9	1403	6	1564	8	1453	7	1482	6	1428	7	1644	8	1373	12	1493	8	1484	10	1797	8	1469
53	Dec. 28-Jan. 3	7	1205	13	1410	7	1396	7	1520	5	1408	6	1570	8	1461	9	1491	8	1436	6	1650	9	1382	9	1502	8	1492	8	1805	8	1477

NOTE.—The Duration of Bright Sunshine is taken from the records of the Campbell-Stokes Sunshine Recorder.

TABLE VI.—SHOWING FOR THE YEAR 1919 THE WEEKLY AND PROGRESSIVE VALUES OF **BRIGHT SUNSHINE** IN EACH DISTRICT EXPRESSED AS **PERCENTAGES** OF THE **POSSIBLE DURATION**.

1919.		0. Scotland, N.		Eastern Districts.												Western Districts.														Means for Districts 1–10 combined.	
Weeks.				1. Scotland, E.		2. England, N.E.		3. England E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.			
No. of Week.	Limiting Dates of each week.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.	For the Week.	From Dec. 29, 1918.
		PERCENTAGES OF POSSIBLE DURATION OF BRIGHT SUNSHINE—1919.																													
	191 .	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	Dec. 29-Jan. 4	10	10	8	8	12	12	19	19	17	17	12	12	14	14	17	17	15	15	18	18	24	24	32	32	21	21	11	11	18	18
2	Jan. 5-11 -	2	6	15	11	17	15	16	17	21	19	15	14	17	15	14	15	16	16	23	21	16	20	22	27	18	20	28	19	17	17
3	12-18 -	26	13	35	20	30	20	20	18	25	20	26	18	27	19	26	19	30	21	30	24	25	22	23	26	27	22	31	23	27	21
4	Jan. 19-25 -	9	12	2	15	4	16	4	14	10	17	13	17	7	16	4	15	7	17	18	22	15	20	18	24	12	20	16	22	10	18
5	Jan. 26-Feb. 1	22	15	21	16	13	15	3	12	7	15	3	14	9	14	21	17	19	17	29	24	32	23	39	27	29	22	25	22	19	18
6	Feb. 2-8 -	17	16	23	17	21	16	30	15	19	16	22	15	23	16	5	15	11	13	14	22	16	21	18	25	13	19	18	21	18	17
7	9-15 -	32	19	35	20	31	19	39	19	35	19	50	21	38	20	20	16	39	20	45	26	41	24	35	26	36	22	42	25	37	21
8	Feb. 16-22 -	14	18	4	18	2	16	2	17	2	16	2	18	2	17	8	15	10	18	10	23	14	23	14	24	11	21	13	23	7	19
9	Feb. 23-Mar. 1	30	20	27	19	25	17	16	17	21	17	14	18	21	18	48	19	31	20	30	24	50	27	44	27	41	23	20	23	31	21
	Winter Percentages.	16		19		17		16		16		17		17		17		17		22		24		25		21		21		19	
10	Mar. 2-8 -	33	21	41	22	23	18	14	16	18	17	16	17	22	18	21	19	21	20	24	24	22	26	26	27	23	23	33	24	22	20
11	9-15 -	45	24	20	22	7	17	16	16	18	17	22	18	17	18	36	21	19	20	30	25	32	27	26	27	29	24	37	25	23	21
12	16-22 -	37	25	26	22	21	17	16	16	18	17	12	17	19	18	18	21	19	20	28	25	13	25	21	26	20	23	28	25	20	21
13	Mar. 23-29 -	35	26	40	24	41	20	43	19	44	20	41	20	42	21	47	23	43	22	46	27	36	26	34	27	41	25	24	26	41	23
14	Mar. 30-Apl. 5	27	27	21	24	38	21	46	21	36	21	52	23	39	22	33	24	32	23	47	29	33	27	41	28	37	26	69	29	38	24
15	April 6-12 -	34	27	34	25	27	22	23	21	23	22	22	23	26	23	32	25	29	24	31	29	31	27	32	29	31	27	30	29	29	25
16	13-19 -	26	27	23	24	24	22	31	22	28	22	34	23	28	23	22	25	22	24	36	30	27	27	28	29	27	25	54	32	27	24
17	April 20-26 -	30	27	33	25	34	23	22	22	36	23	30	24	31	23	51	27	45	25	53	32	56	30	52	31	51	29	64	34	41	26
18	April 27-May 3	28	27	32	26	31	24	32	23	24	23	24	24	29	24	29	27	31	26	21	31	31	30	27	30	28	29	19	33	29	26
19	May 4-10 -	23	27	13	25	21	23	40	24	22	23	41	25	27	24	27	27	31	26	37	31	27	30	36	31	32	29	44	34	30	27
20	11-17 -	42	28	44	26	55	26	62	27	51	25	57	27	54	26	33	27	45	27	41	32	27	32	21	30	33	30	49	35	43	28
21	18-24 -	42	29	44	27	59	28	67	29	57	27	67	30	59	28	36	28	46	29	33	32	35	30	30	30	36	30	39	35	48	29
22	May 25-31 -	39	30	46	29	57	30	67	32	59	29	64	32	59	30	61	30	64	31	66	34	62	32	58	32	62	32	60	36	60	31
	Spring Percentages.	34		32		34		37		33		37		35		34		34		38		33		33		34		42		35	
23	June 1-7 -	11	29	24	28	39	30	40	32	38	30	41	32	36	30	27	30	40	31	42	34	32	32	47	33	38	32	45	37	37	31
24	8-14 -	35	29	47	30	59	32	64	34	61	31	58	34	58	32	51	31	57	33	57	36	31	32	34	33	46	33	51	38	52	32
25	15-21 -	37	29	35	30	37	32	59	35	45	32	59	35	47	33	38	32	39	33	41	36	34	32	51	33	37	33	54	39	42	33
26	June 22-28 -	24	29	32	30	20	32	22	35	24	32	29	35	25	29	34	32	25	33	32	36	20	32	24	32	27	33	42	39	26	31
27	June 29-July 5	18	28	21	29	14	31	22	34	14	31	19	34	18	32	36	32	18	32	47	36	41	32	38	33	36	33	39	39	27	33
28	July 6-12 -	24	28	45	30	23	30	20	34	21	31	27	34	27	32	49	33	33	32	48	37	25	31	39	33	39	33	41	39	33	32
29	13-19 -	25	28	48	31	42	31	37	34	32	31	34	34	39	32	32	33	34	32	27	36	14	31	21	32	26	33	40	39	33	33
30	July 20-26 -	35	29	27	31	22	31	19	33	25	31	22	33	23	32	63	34	43	33	52	37	36	31	39	33	47	33	55	39	35	32
31	July 27-Aug. 2	9	28	37	31	28	30	24	33	31	31	35	33	31	32	36	34	33	33	44	37	37	31	36	33	37	33	51	40	34	33
32	Aug. 3-9 -	17	27	32	31	44	31	52	33	51	31	64	35	49	32	44	34	34	33	57	38	33	31	47	33	43	34	62	41	48	32
33	10-16 -	17	27	45	32	59	32	72	35	67	33	76	36	64	34	42	35	55	33	66	39	48	32	48	34	52	35	75	42	58	35
34	17-23 -	49	28	53	32	36	32	40	35	34	33	38	36	40	34	45	35	35	33	38	39	37	32	41	34	39	35	48	42	40	34
35	Aug. 24-30 -	28	28	24	32	26	32	28	35	26	32	34	36	28	33	34	35	26	33	26	38	24	32	23	34	27	34	39	42	27	34
	Summer Percentages.	25		36		35		38		36		41		37		41		36		44		32		36		38		49		38	
36	Aug. 31-Sept. 6	33	28	39	32	27	32	41	35	23	32	39	36	34	33	40	35	33	33	34	38	36	32	47	34	38	34	48	42	36	33
37	Sept. 7-13 -	41	28	38	33	46	32	62	36	47	33	66	37	52	34	26	35	41	33	47	39	37	32	34	34	37	35	63	43	45	35
38	14-20 -	34	28	50	33	34	32	34	36	33	33	41	37	38	34	48	35	43	34	28	38	44	32	43	34	41	35	42	43	39	34
39	Sept. 21-27 -	26	28	38	33	43	32	36	35	40	33	28	37	37	34	39	35	38	34	39	38	26	32	34	34	35	35	31	42	36	35
40	Sept. 28-Oct. 4	14	28	29	33	52	33	63	36	56	33	60	37	52	34	27	35	41	34	65	39	21	32	32	34	37	35	67	43	45	34
41	Oct. 5-11 -	37	28	33	33	46	33	42	36	50	34	46	37	43	35	37	35	42	34	48	39	16	32	27	34	34	35	46	43	38	35
42	12-18 -	25	28	26	33	40	33	44	36	45	34	54	38	42	35	36	35	37	34	50	39	38	32	47	34	42	35	64	43	42	35
43	Oct. 19-25 -	23	28	23	33	32	33	38	36	31	34	40	38	33	35	15	35	24	34	25	39	27	32	25	34	23	35	33	43	28	35
44	Oct. 26-Nov. 1	39	28	27	32	28	33	25	36	34	34	32	38	29	35	59	35	39	34	47	39	59	32	58	35	52	35	41	43	40	35
45	Nov. 2-8 -	10	28	7	32	8	33	2	36	4	33	1	37	4	34	10	35	5	34	14	39	14	32	33	35	15	35	13	43	10	35
46	9-15 -	65	28	40	32	16	32	24	35	15	33	22	37	23	34	36	35	32	34	31	39	53	32	49	35	40	35	34	43	31	34
47	16-22 -	8	28	29	32	39	33	34	36	35	33	30	37	33	34	19	35	19	33	19	38	14	32	15	35	17	35	20	42	25	35
48	Nov. 23-29 -	14	28	28	32	15	32	25	35	17	33	28	37	23	34	18	34	15	33	31	38	31	32	31	34	25	34	32	42	24	34
	Autumn Percentages.	26		31		33		36		33		37		34		32		31		37		32		37		34		41		34	
49	Nov. 30-Dec. 6	20	28	24	32	19	32	18	35	15	32	18	36	19	33	18	34	11	33	18	38	24	32	24	34	19	34	18	42	19	33
50	Dec. 7-13 -	13	28	25	32	20	32	20	35	22	32	21	36	22	33	31	34	30	33	29	38	17	32	26	34	27	34	32	42	24	34
51	14-20 -	0	27	13	32	9	32	6	35	8	32	8	36	9	33	9	34	10	33	14	38	11	31	17	34	12	34	8	41	11	33
52	21-27 -	8	27	19	32	17	32	16	34	17	32	12	36	16	33	15	34	12	32	14	37	15	31	21	34	15	34	17	41	15	34
53	Dec. 28-Jan. 3	16	27	27	32	14	31	14	34	11	32	12	35	16	33	18	34	15	32	12	37	18	31	17	34	16	34	14	40	16	33

Meteorological Office,
South Kensington, London, S.W.7,

May 17th, 1920.